

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P320934

Luminaire Tested: **GAN-SA0C-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65409 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

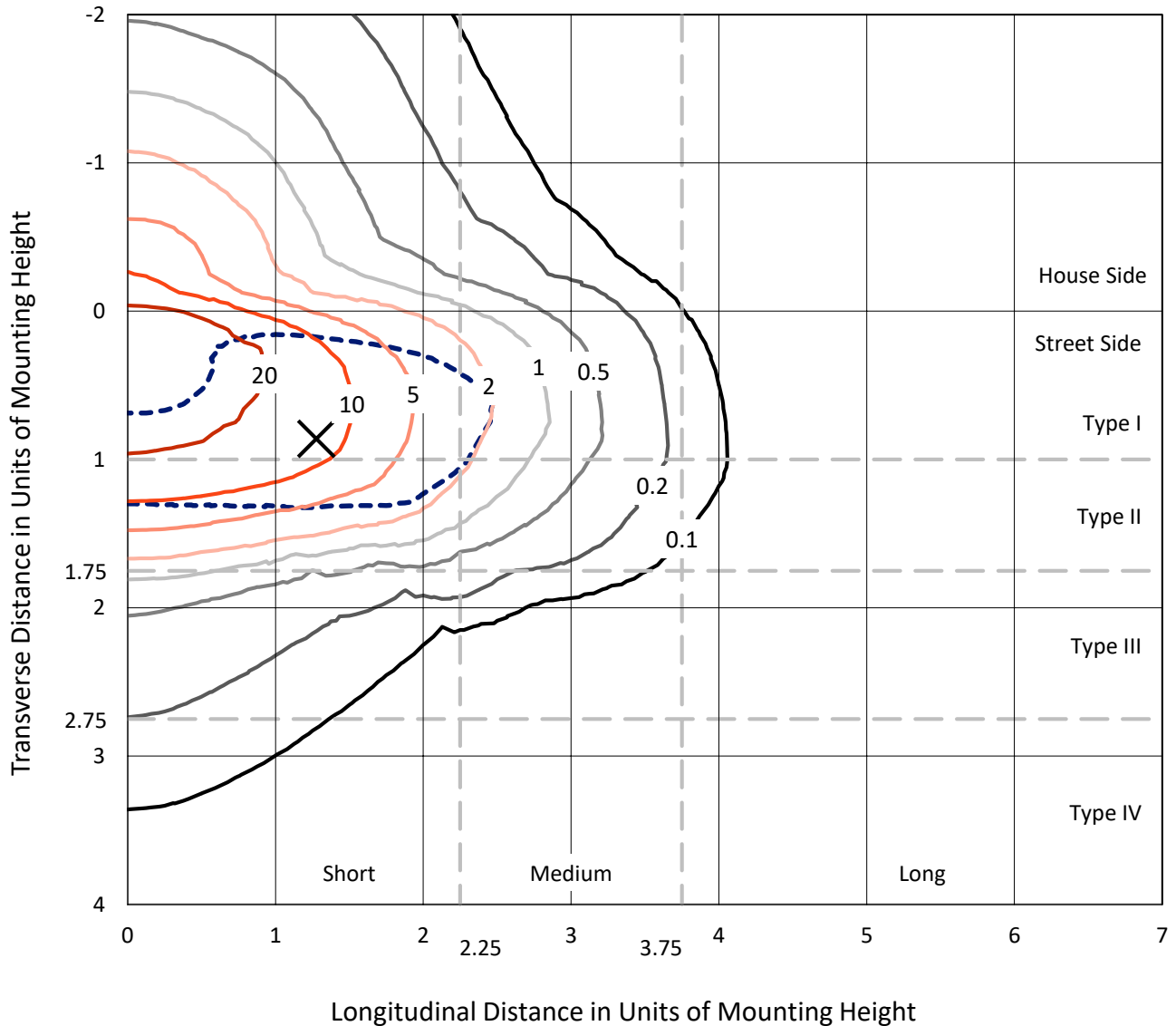
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

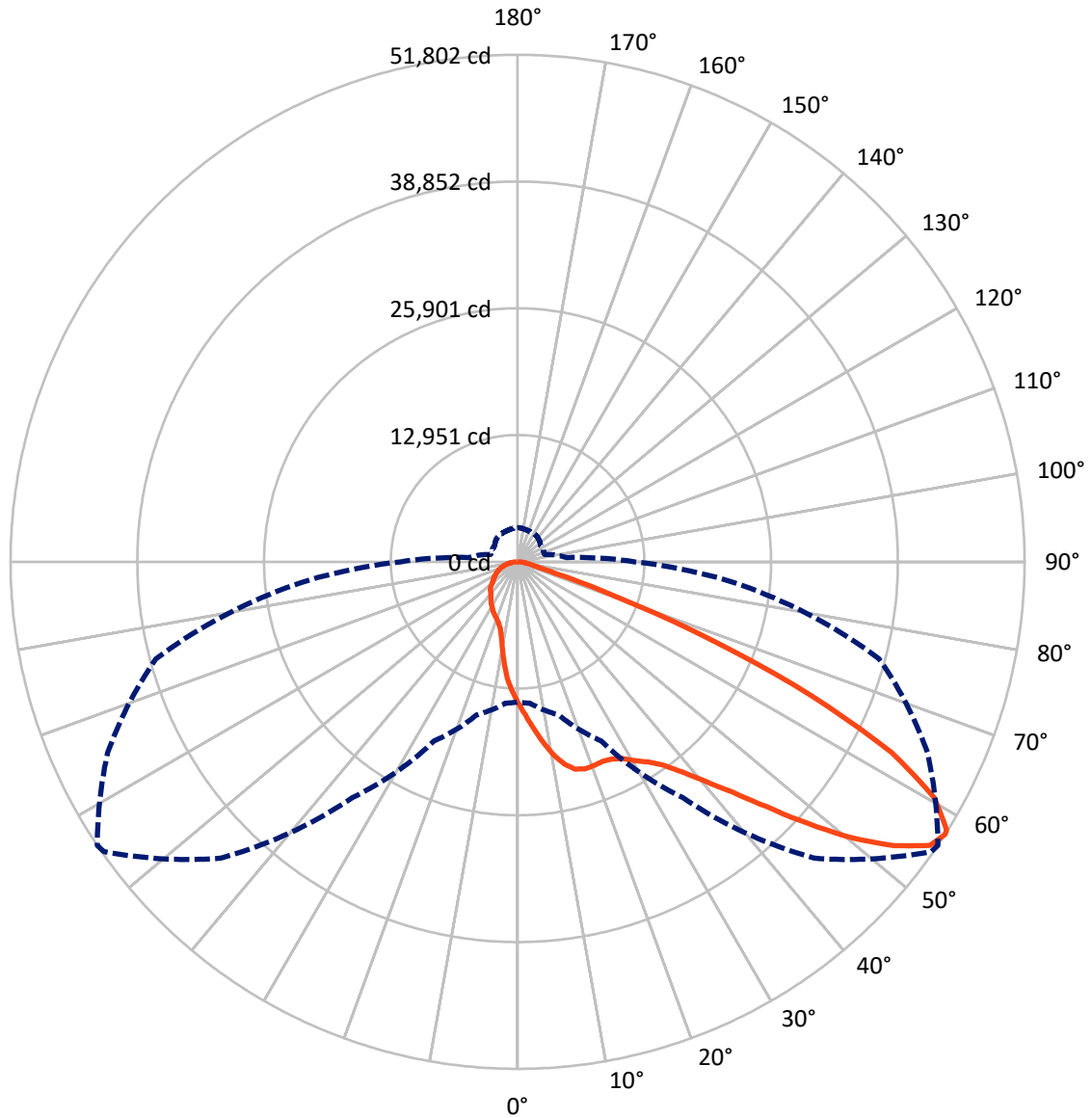
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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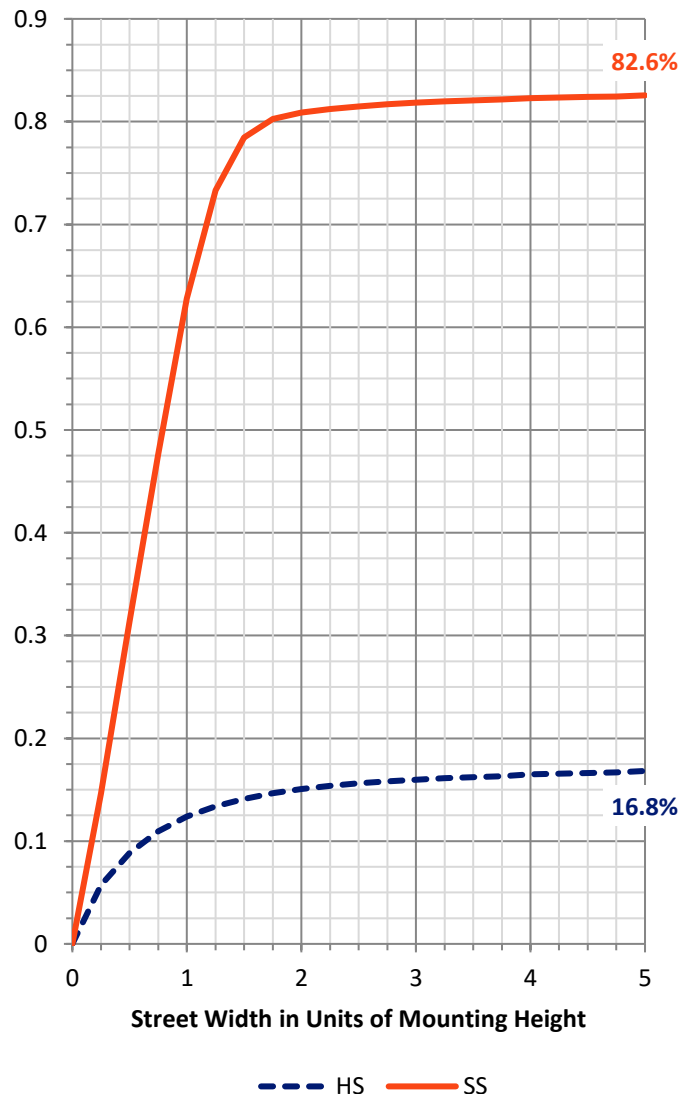
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11275.1	0.0	11275.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	54133.9	0.0	54133.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	65409.0	0.0	65409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1385.9	2.1
10°-20°	3918.1	6.0
20°-30°	6381.9	9.8
30°-40°	9540.2	14.6
40°-50°	14470.5	22.1
50°-60°	16218.9	24.8
60°-70°	9579.5	14.6
70°-80°	3138.6	4.8
80°-90°	775.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	65409.0	100.0
0°-180°	65409.0	100.0

Coefficient of Utilization

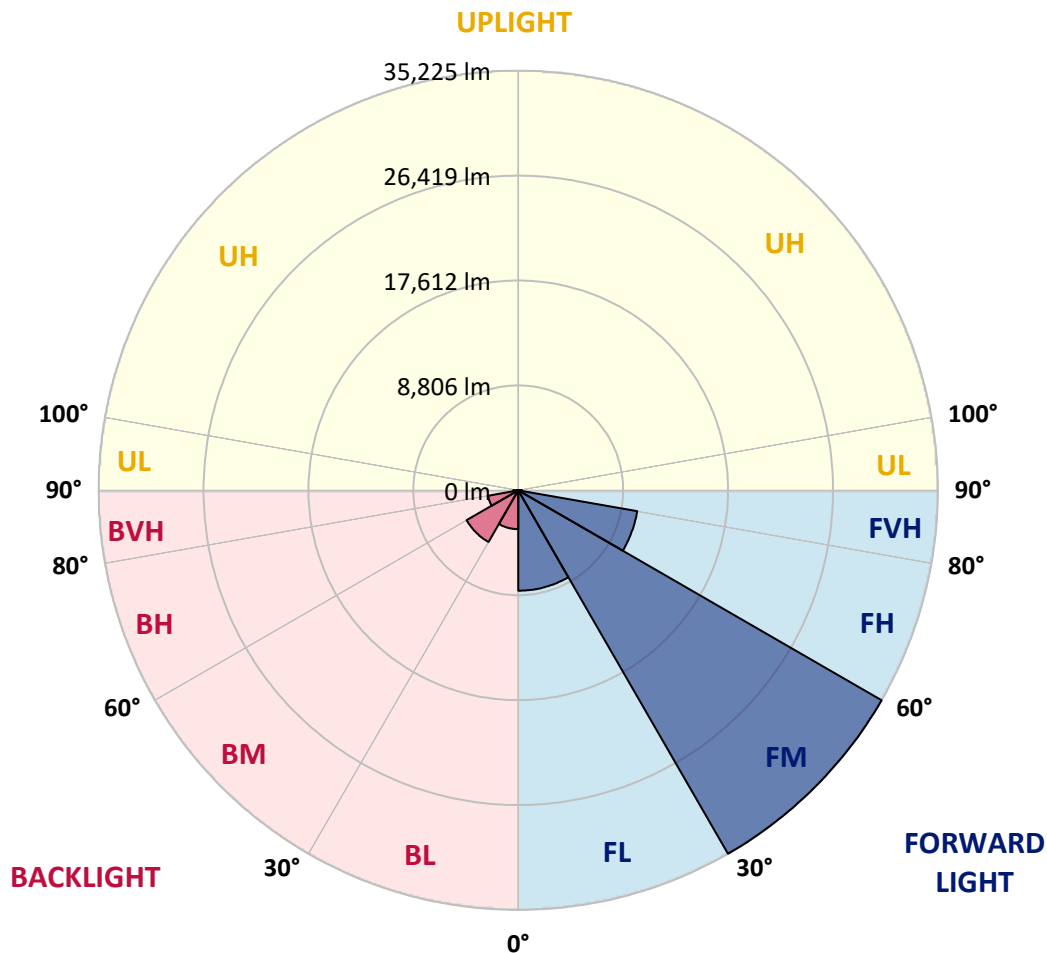


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8425.7	12.9			
FM (30°-60°)	35224.9	53.9			
FH (60°-80°)	10141.9	15.5			G4/12000
FVH (80°-90°)	341.4	0.5			G3/500
BL (0°-30°)	3260.2	5.0	B4/5000		
BM (30°-60°)	5004.7	7.7	B4/8500		
BH (60°-80°)	2576.2	3.9	B4/5000		G4/5000
BVH (80°-90°)	434.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8
2.5°	16659.0	16811.8	16744.4	16510.6	16330.8	16076.8	15793.6	15708.1	15409.2	15074.2	14671.9
5°	19295.7	19219.3	19109.2	18745.0	18360.6	17913.3	17203.0	17090.6	16425.2	15667.7	14867.4
7.5°	20797.3	20790.6	20725.4	20511.8	20161.2	19576.7	18720.3	18587.7	17582.9	16364.5	15123.7
10°	20579.3	20563.5	20671.4	20894.0	20999.6	20878.2	20156.7	20024.1	18790.0	17135.5	15420.4
12.5°	19340.7	19349.7	19522.8	19990.3	20626.5	21390.8	21273.9	21208.7	20042.0	18007.7	15780.1
15°	18376.4	18396.6	18533.7	18940.6	19691.4	21078.3	21952.7	21975.2	21253.6	18969.8	16200.4
17.5°	17953.8	17996.5	18059.4	18344.9	19032.7	20455.6	22114.6	22236.0	22314.6	19967.9	16605.0
20°	18088.6	18129.1	18147.1	18329.2	18893.4	20078.0	22002.2	22220.2	23128.4	20907.5	17009.7
22.5°	18693.3	18718.0	18729.3	18776.5	19214.8	20185.9	21928.0	22157.3	23717.3	21750.4	17315.4
25°	19695.9	19677.9	19606.0	19545.3	19839.7	20613.0	22098.8	22316.9	24196.1	22514.7	17515.4
27.5°	20896.2	20873.8	20734.4	20568.0	20736.6	21278.4	22591.1	22764.2	24625.5	23229.5	17616.6
30°	22337.1	22278.7	22015.7	21817.9	21883.0	22276.4	23402.6	23560.0	25288.6	24041.0	17715.5
32.5°	24002.8	23939.9	23560.0	23231.8	23231.8	23560.0	24238.8	24369.2	25850.5	24958.1	17875.1
35°	26088.8	26010.1	25515.6	24964.9	24809.8	24976.1	25378.5	25470.7	26862.1	26113.5	18165.1
37.5°	28548.0	28442.3	27801.7	27064.4	26725.0	26716.0	27006.0	27194.8	28478.3	27630.9	18657.4
40°	31013.9	30939.7	30380.0	29800.1	29134.7	28921.1	29368.5	29426.9	30591.3	29514.6	19286.8
42.5°	32920.1	32906.6	32803.2	32879.6	32198.5	31766.9	32117.6	32164.8	33171.9	31553.4	19956.6
45°	33927.2	33949.6	34450.9	35561.4	35813.1	35498.4	35671.5	35685.0	36121.1	33610.2	20570.3
47.5°	33120.2	33237.1	34504.9	36988.8	39050.1	40095.3	39807.6	39973.9	38980.4	35377.0	21051.3
50°	29975.4	30119.3	32277.2	36352.6	40560.6	44543.9	44393.3	44355.0	41286.7	36671.8	21312.1
52.5°	26079.8	26192.2	27972.5	33046.0	39452.4	47003.0	48385.5	48187.7	43336.8	37640.6	21361.5
55°	20147.7	20323.0	22029.2	26446.2	34970.2	46063.4	51321.2	51143.6	45204.7	38148.7	21303.1
57°	14323.5	14507.8	16202.7	20183.7	29417.9	42810.8	51613.4	51802.2	46214.0	38234.1	21368.3
57.5°	12781.4	12970.2	14649.4	18515.7	27687.1	41635.1	51361.7	51676.4	46396.1	38220.6	21404.3
60°	6435.7	6507.6	7577.6	10335.7	17501.9	33659.7	48077.5	48889.0	46560.2	37559.7	21559.4
62.5°	4001.2	3949.5	3915.8	4761.0	8514.9	22321.4	41300.2	42862.5	43419.9	35959.2	21184.0
65°	3517.9	3421.3	3050.4	2982.9	3760.7	10841.5	31101.6	33046.0	36710.0	33437.1	20289.3
67.5°	3304.4	3210.0	2791.9	2540.1	2542.3	4297.9	19309.2	21498.7	28597.4	29172.9	18178.6
70°	3084.1	2998.7	2607.5	2310.8	2164.7	2380.5	8883.6	10544.8	18641.6	22930.6	15193.4
72.5°	2800.9	2742.4	2371.5	2065.8	1910.7	1782.6	3401.0	4016.9	10792.0	15400.2	10551.5
75°	2504.1	2450.2	2133.2	1841.0	1652.2	1402.7	1915.2	2063.5	5482.6	7878.8	5194.8
77.5°	2178.2	2146.7	1897.2	1627.5	1476.9	1162.2	1355.5	1427.4	2351.3	3378.6	2605.3
80°	1733.1	1793.8	1658.9	1449.9	1310.5	930.6	959.8	1007.0	1369.0	1649.9	1479.1
82.5°	1128.4	1234.1	1299.3	1177.9	1079.0	732.8	690.1	710.3	892.4	1007.0	642.9
85°	469.8	528.3	854.2	771.0	717.1	535.0	463.1	472.1	553.0	573.2	263.0
87.5°	209.1	222.5	375.4	352.9	303.5	184.3	197.8	215.8	294.5	278.7	101.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8	14507.8
2.5°	14521.3	14332.4	14008.7	13651.3	13359.1	13125.3	12889.3	12727.5	12538.6	12437.5	12385.8
5°	14532.5	14161.6	13480.5	12781.4	12156.5	11585.5	11041.6	10623.5	10232.3	10021.0	9962.6
7.5°	14579.7	14022.2	12920.8	11769.9	10659.4	9645.6	8863.4	8373.3	8020.4	7863.1	7818.1
10°	14617.9	13858.1	12228.4	10524.5	9014.0	7986.7	7379.8	7105.5	6984.1	6963.9	6943.7
12.5°	14707.8	13689.5	11500.1	9225.3	7734.9	7024.6	6813.3	6795.3	6829.0	6878.5	6878.5
15°	14849.5	13523.2	10668.4	8110.3	6921.2	6671.7	6714.4	6813.3	6905.5	6981.9	6993.1
17.5°	14952.9	13318.7	9773.8	7217.9	6487.4	6554.8	6707.7	6847.0	6941.4	7015.6	7022.4
20°	15027.0	13001.7	8818.4	6536.8	6237.8	6446.9	6638.0	6761.6	6826.8	6901.0	6912.2
22.5°	14988.8	12576.9	7971.0	6049.0	6035.5	6289.6	6471.6	6620.0	6570.5	6498.6	6545.8
25°	14804.5	11992.4	7098.8	5684.9	5822.0	6078.3	6303.0	6204.1	6037.8	6006.3	6024.3
27.5°	14476.3	11246.1	6291.8	5347.7	5574.7	5882.7	5869.2	5770.3	5711.8	5671.4	5696.1
30°	14123.4	10436.9	5586.0	5053.2	5300.5	5554.5	5502.8	5500.5	5442.1	5376.9	5408.4
32.5°	13775.0	9623.1	5026.2	4810.4	5093.7	5127.4	5239.8	5273.5	5158.9	5021.7	5012.8
35°	13471.5	8854.4	4601.4	4590.2	4844.2	4848.7	5012.8	4965.6	4680.1	4538.5	4538.5
37.5°	13244.5	8087.8	4277.7	4392.3	4516.0	4632.9	4716.0	4520.5	4473.3	4394.6	4392.3
40°	13145.6	7413.5	4075.4	4241.7	4284.4	4432.8	4219.3	4295.7	4318.2	4277.7	4277.7
42.5°	13042.2	6826.8	3900.1	4127.1	4120.4	4100.1	3992.2	4091.1	4181.0	4183.3	4176.5
45°	12938.8	6321.0	3745.0	3882.1	3976.5	3758.4	3778.7	3884.3	4010.2	4055.2	4055.2
47.5°	12824.1	5920.9	3603.3	3623.6	3769.7	3623.6	3607.8	3688.8	3837.1	3909.1	3924.8
50°	12572.4	5561.2	3441.5	3396.5	3437.0	3486.5	3499.9	3538.2	3702.2	3816.9	3843.9
52.5°	12223.9	5239.8	3234.7	3187.5	3187.5	3374.1	3437.0	3448.2	3587.6	3724.7	3751.7
55°	11934.0	5035.2	3021.1	3012.2	3003.2	3254.9	3362.8	3380.8	3477.5	3585.4	3598.8
57°	11954.2	5019.5	2857.0	2866.0	2863.8	3133.5	3293.1	3331.3	3380.8	3473.0	3488.7
57.5°	11965.4	5030.7	2821.1	2825.6	2823.3	3099.8	3272.9	3315.6	3353.8	3450.5	3466.2
60°	12134.0	5060.0	2675.0	2625.5	2636.8	2920.0	3158.3	3212.2	3236.9	3365.1	3385.3
62.5°	11884.5	4929.6	2558.1	2438.9	2438.9	2731.2	2998.7	3084.1	3122.3	3295.4	3329.1
65°	11160.7	4563.2	2421.0	2227.6	2250.1	2542.3	2807.6	2947.0	3005.4	3221.2	3257.2
67.5°	10043.5	4138.3	2274.8	2038.8	2061.3	2344.5	2609.8	2760.4	2852.6	3140.3	3169.5
70°	8589.1	3619.1	2077.0	1838.8	1865.7	2128.7	2376.0	2546.8	2684.0	3063.9	3072.8
72.5°	6332.3	2967.2	1800.5	1618.5	1647.7	1877.0	2140.0	2337.8	2522.1	2872.8	2868.3
75°	3765.2	2319.8	1494.8	1395.9	1416.2	1629.7	1926.4	2167.0	2443.4	2798.6	2841.3
77.5°	2283.8	1746.6	1218.3	1168.9	1193.6	1411.7	1773.6	2029.8	2409.7	2639.0	2625.5
80°	1380.2	1247.6	973.3	941.9	966.6	1207.1	1640.9	1926.4	2106.3	2254.6	2254.6
82.5°	721.6	762.0	714.8	690.1	723.8	980.1	1492.6	1681.4	1861.2	1598.2	1492.6
85°	294.5	397.9	433.8	431.6	451.8	678.9	1288.0	1438.6	1200.4	1139.7	1166.6
87.5°	98.9	168.6	211.3	182.1	191.1	427.1	892.4	694.6	825.0	575.5	546.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)