

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: P317462

Luminaire Tested: **GAN-SA8D-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64783 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

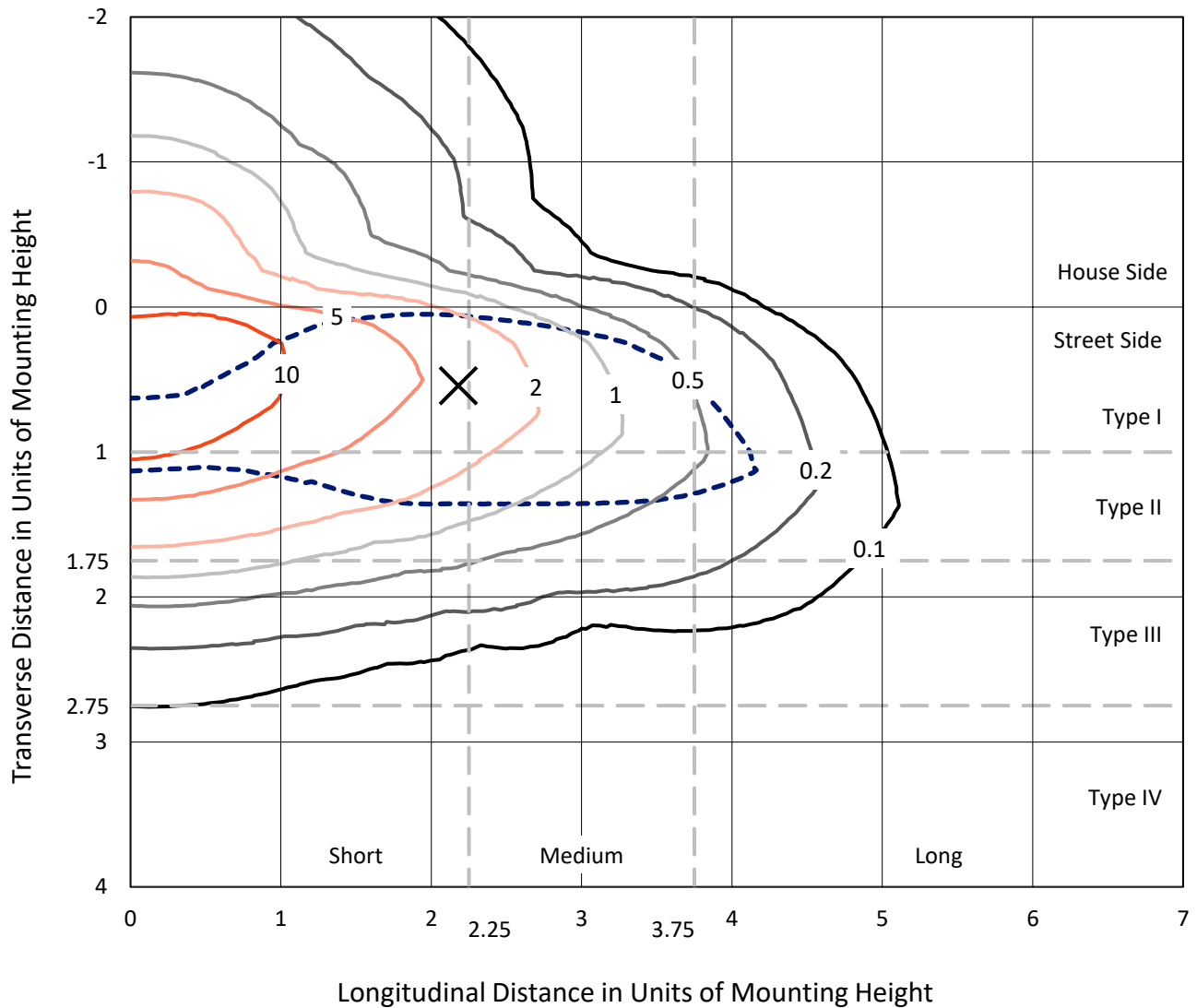
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

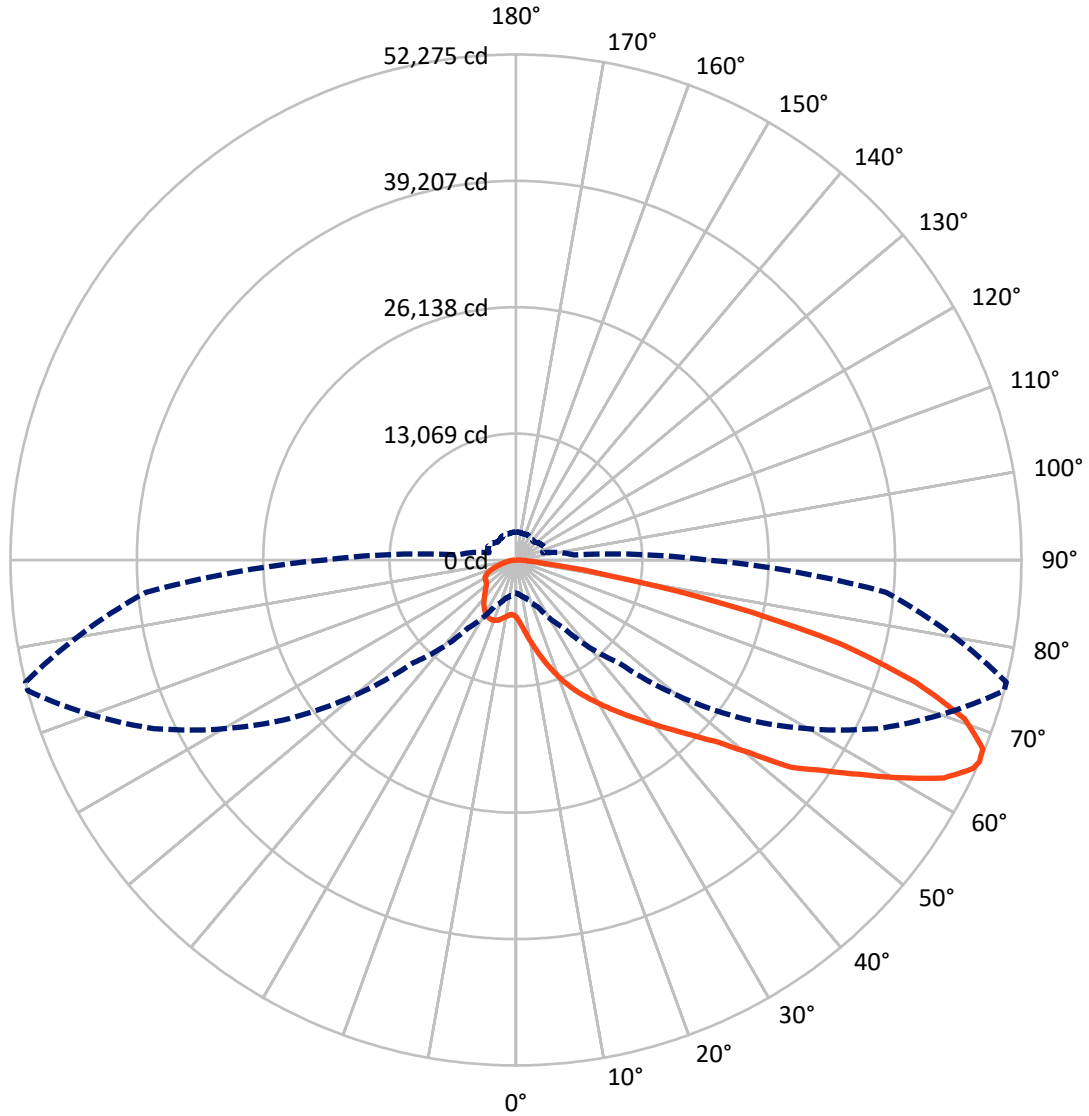
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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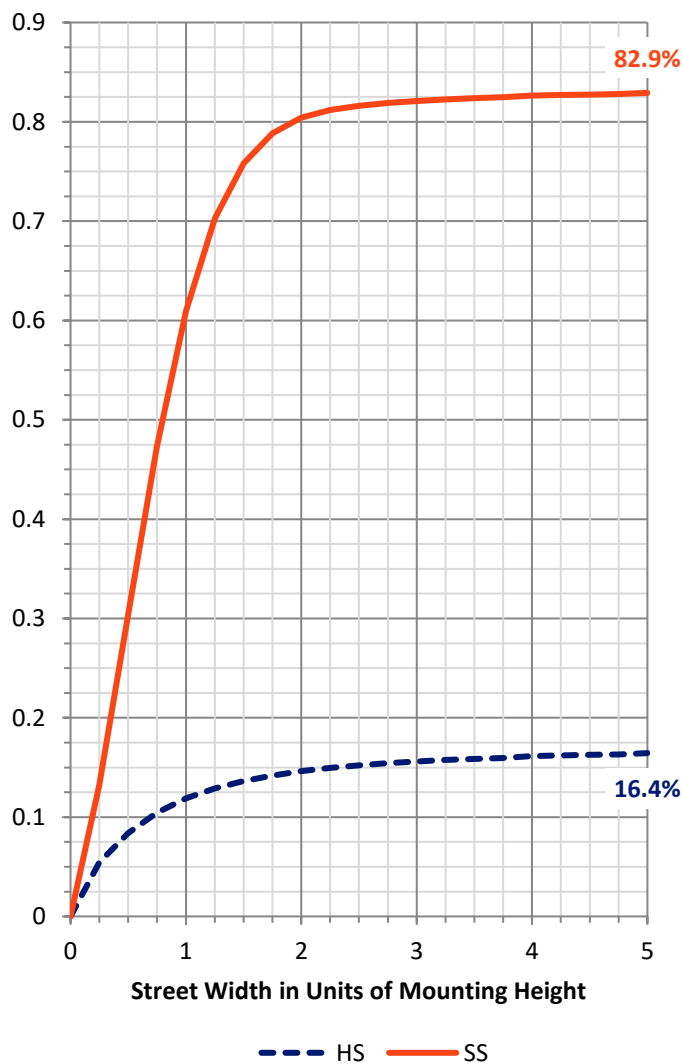
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10900.8	0.0	10900.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	53882.2	0.0	53882.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	64783.0	0.0	64783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.4	1.1
10°-20°	2825.2	4.4
20°-30°	5490.0	8.5
30°-40°	8960.8	13.8
40°-50°	12242.7	18.9
50°-60°	14260.2	22.0
60°-70°	12784.6	19.7
70°-80°	6460.8	10.0
80°-90°	1043.3	1.6
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°	64783.0	100.0
0°-180°	64783.0	100.0

Coefficient of Utilization



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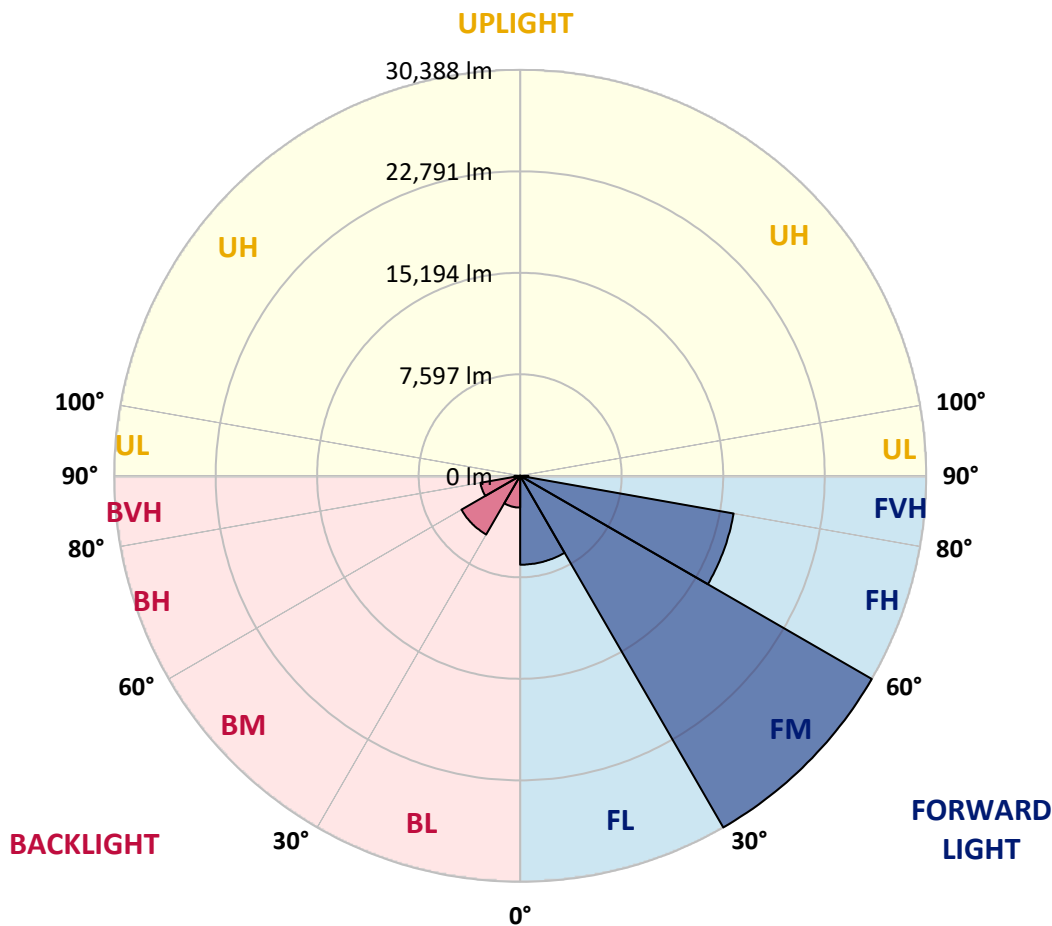
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6653.0	10.3			
FM (30°-60°)	30387.7	46.9			
FH (60°-80°)	16225.3	25.0			G5
FVH (80°-90°)	616.1	1.0			G4/750
BL (0°-30°)	2377.5	3.7	B3/2500		
BM (30°-60°)	5076.1	7.8	B4/8500		
BH (60°-80°)	3020.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	427.2	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	7853.7	7735.0	7724.0	7550.2	7510.7	7178.6	6934.4	6679.3	6389.0	6331.8	6103.1
5°	10088.2	10077.2	9925.5	9641.8	9419.7	8852.2	8291.4	7697.6	7046.6	6941.0	6426.4
7.5°	12098.4	12080.8	11964.3	11658.6	11337.5	10640.3	9839.7	8929.2	7873.5	7717.4	6864.1
10°	13624.7	13618.1	13578.6	13354.2	13081.5	12412.9	11528.8	10286.2	8834.6	8621.3	7411.7
12.5°	14803.6	14816.8	14843.2	14764.0	14634.2	14064.6	13158.5	11724.5	9859.5	9648.4	8020.9
15°	15601.9	15641.5	15777.9	15890.0	15958.2	15608.5	14731.0	13195.9	11007.6	10754.6	8696.1
17.5°	16004.4	16048.4	16283.7	16622.4	16934.7	16899.5	16202.3	14599.0	12109.4	11865.3	9421.9
20°	16351.9	16384.9	16648.8	17055.7	17607.7	17851.8	17460.3	15949.4	13316.8	13026.5	10191.6
22.5°	17359.2	17401.0	17480.1	17711.1	18199.3	18648.0	18458.8	17227.2	14423.1	14152.6	10921.8
25°	19303.4	19353.9	19182.4	18986.7	19079.0	19391.3	19426.5	18392.8	15544.7	15239.0	11706.9
27.5°	21645.6	21718.2	21425.7	20922.1	20482.2	20361.2	20319.4	19347.3	16615.8	16261.7	12483.3
30°	23939.5	24064.9	23684.4	23031.2	22224.0	21656.6	21236.6	20282.1	17671.5	17332.8	13215.7
32.5°	26180.6	26130.0	25578.0	24940.2	23994.5	23284.1	22268.0	21284.9	18859.1	18469.8	13943.6
35°	27715.7	27733.3	27220.9	26464.3	25562.6	25017.2	23649.2	22367.0	20070.9	19712.4	14770.6
37.5°	29022.1	28940.7	28360.1	27654.1	26877.8	26644.7	25265.7	23559.0	21383.9	20992.4	15650.3
40°	29457.6	29363.0	28982.5	28474.5	27852.1	27832.3	27049.3	24909.4	22868.4	22481.4	16642.2
42.5°	29193.7	29072.7	28916.6	28778.0	28586.7	28674.6	28725.2	26492.9	24500.3	24067.1	17790.2
45°	28219.4	28036.8	28146.8	28448.1	28863.8	29360.8	30238.3	28245.8	26328.0	25965.1	19138.4
47.5°	26721.6	26556.7	26899.8	27544.2	28674.6	29932.6	31670.1	30181.2	28509.7	28149.0	21058.4
50°	24614.7	24663.1	25153.5	26325.8	28034.6	30196.6	33433.9	32743.4	31681.1	31344.6	23677.8
52.5°	21157.4	21166.2	22547.3	24471.7	26899.8	30060.2	34412.6	36018.1	36011.5	35604.7	26171.8
55°	17946.4	18142.1	19235.2	21793.0	25061.2	29514.8	35096.6	37610.4	38855.2	38378.0	28496.5
57.5°	14810.2	14924.5	15960.4	18529.2	22437.4	28061.0	35798.2	39521.6	42132.2	41830.9	31386.4
60°	11242.9	11418.8	12489.9	14862.9	19081.2	25481.2	35864.2	41516.4	46049.2	45745.7	34612.8
62.5°	7297.3	7600.8	8603.7	10827.2	15021.3	21771.0	34333.5	42820.6	49761.6	49653.9	37476.3
65°	4194.1	4422.8	5120.0	6835.5	10363.2	17112.8	30693.6	42319.2	52046.7	51985.1	38547.3
66°	3426.5	3569.5	4103.9	5342.1	8550.9	15027.9	28577.9	41261.3	52273.2	52275.4	38424.2
67.5°	2740.3	2804.1	3043.8	3824.6	6309.8	11911.5	24797.2	38927.8	51991.7	52068.7	37630.2
70°	2267.5	2300.5	2375.3	2564.4	3444.1	7183.0	17601.1	32864.3	49165.6	49225.0	34531.4
72.5°	2034.4	2054.2	2082.7	2109.1	2430.2	4013.7	10750.2	26290.6	43106.5	43183.5	29809.5
75°	1843.0	1854.0	1849.6	1851.8	2038.8	2557.8	5555.5	19628.9	34854.7	34700.7	22835.5
77.5°	1618.7	1629.7	1607.7	1612.1	1803.4	1966.2	2764.5	13741.3	23521.6	22435.2	12866.0
80°	1368.0	1376.8	1368.0	1383.4	1570.3	1484.5	1607.7	7730.6	10400.5	9837.5	4574.6
82.5°	1033.7	1071.1	1097.5	1159.0	1293.2	1055.7	1075.5	3010.9	3167.0	3015.3	1403.2
85°	453.1	552.0	826.9	886.3	972.1	633.4	706.0	1227.2	1288.8	1249.2	510.2
87.5°	118.8	129.8	409.1	514.6	538.8	285.9	367.3	558.6	589.4	558.6	169.3
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°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	5982.1	5874.4	5680.8	5509.3	5379.5	5291.5	5203.6	5159.6	5133.2	5106.8	5111.2
5°	6173.5	5955.7	5623.6	5388.3	5256.4	5172.8	5128.8	5111.2	5100.2	5073.8	5073.8
7.5°	6461.6	6153.7	5696.2	5454.3	5350.9	5287.1	5260.8	5252.0	5238.8	5208.0	5212.4
10°	6824.5	6393.4	5848.0	5612.6	5518.1	5447.7	5410.3	5397.1	5372.9	5337.7	5342.1
12.5°	7251.1	6690.3	6048.1	5801.8	5687.4	5592.9	5531.3	5493.9	5452.1	5405.9	5408.1
15°	7717.4	7013.6	6263.6	5971.1	5815.0	5683.0	5584.1	5520.3	5454.3	5397.1	5394.9
17.5°	8190.2	7325.9	6428.6	6063.5	5852.4	5678.6	5544.5	5445.5	5364.1	5293.7	5287.1
20°	8700.5	7607.4	6521.0	6054.7	5782.0	5575.3	5397.1	5273.9	5183.8	5113.4	5102.4
22.5°	9219.5	7871.3	6536.4	5964.5	5625.8	5372.9	5186.0	5049.6	4957.2	4884.7	4858.3
25°	9694.6	8075.9	6472.6	5790.8	5408.1	5135.4	4952.9	4814.3	4739.5	4653.7	4627.4
27.5°	10127.8	8218.8	6345.0	5568.7	5164.0	4895.7	4724.1	4605.4	4524.0	4458.0	4436.0
30°	10517.1	8295.8	6136.1	5304.7	4913.3	4669.1	4524.0	4442.6	4372.2	4288.7	4273.3
32.5°	10886.6	8295.8	5867.8	5016.6	4664.7	4469.0	4383.2	4332.6	4253.5	4172.1	4150.1
35°	11256.1	8245.2	5551.1	4715.3	4436.0	4326.0	4321.6	4262.3	4141.3	4031.3	4002.7
37.5°	11645.4	8141.9	5194.8	4433.8	4249.1	4262.3	4299.7	4167.7	3996.1	3840.0	3798.2
40°	12085.2	7998.9	4825.3	4189.7	4092.9	4233.7	4240.3	4031.3	3697.0	3554.1	3516.7
42.5°	12602.1	7855.9	4482.2	3974.2	3969.8	4147.9	4128.1	3736.6	3536.5	3463.9	3444.1
45°	13281.6	7774.6	4156.7	3769.6	3873.0	4009.3	3936.8	3573.9	3490.3	3448.5	3430.9
47.5°	14352.7	7816.4	3857.6	3606.9	3776.2	3870.8	3580.5	3507.9	3448.5	3397.9	3380.3
50°	15694.3	7792.2	3615.7	3494.7	3666.3	3725.6	3419.9	3422.1	3391.3	3334.2	3307.8
52.5°	16703.8	7603.0	3459.5	3430.9	3569.5	3468.3	3318.8	3338.6	3323.2	3239.6	3211.0
55°	17678.1	7440.3	3380.3	3406.7	3499.1	3147.2	3200.0	3248.4	3233.0	3151.6	3138.4
57.5°	18889.9	7409.5	3332.0	3413.3	3439.7	2986.7	3085.6	3149.4	3138.4	3103.2	3096.6
60°	20374.4	7418.3	3288.0	3424.3	3373.7	2867.9	2977.9	3059.2	3065.8	3059.2	3054.8
62.5°	21190.4	7178.6	3178.0	3393.5	3257.2	2764.5	2865.7	2984.5	2986.7	2999.9	2997.7
65°	20497.6	6461.6	2973.5	3285.8	3061.4	2678.8	2768.9	2898.7	2865.7	2925.1	2925.1
66°	19824.6	6048.1	2872.3	3215.4	2977.9	2645.8	2738.1	2854.7	2812.9	2894.3	2894.3
67.5°	18450.0	5350.9	2689.8	3065.8	2859.1	2599.6	2703.0	2782.1	2724.9	2845.9	2837.1
70°	15938.4	4139.1	2322.5	2727.1	2663.4	2531.4	2654.6	2637.0	2553.4	2738.1	2703.0
72.5°	13437.8	3145.0	1865.0	2282.9	2366.5	2445.6	2586.4	2452.2	2346.7	2476.4	2399.4
75°	10426.9	2364.3	1473.5	1774.8	1999.2	2311.5	2505.0	2238.9	2087.1	2074.0	2032.2
77.5°	5636.8	1623.1	1167.8	1354.8	1587.9	2144.3	2450.0	2010.2	1781.4	1728.7	1695.7
80°	2232.3	1055.7	848.9	1027.1	1110.7	1902.4	2318.1	1744.1	1469.1	1416.4	1365.8
82.5°	921.5	624.6	547.6	688.4	723.6	1627.5	2080.5	1429.6	1134.8	1570.3	1667.1
85°	395.9	343.1	325.5	356.3	409.1	1141.4	1656.1	1090.9	1225.0	1093.1	868.7
87.5°	118.8	145.2	138.6	136.4	149.6	272.7	881.9	607.0	899.5	340.9	255.1
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)