

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: P321022

Luminaire Tested: **GAN-SA8D-750-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321022
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-SA8D-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63795 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

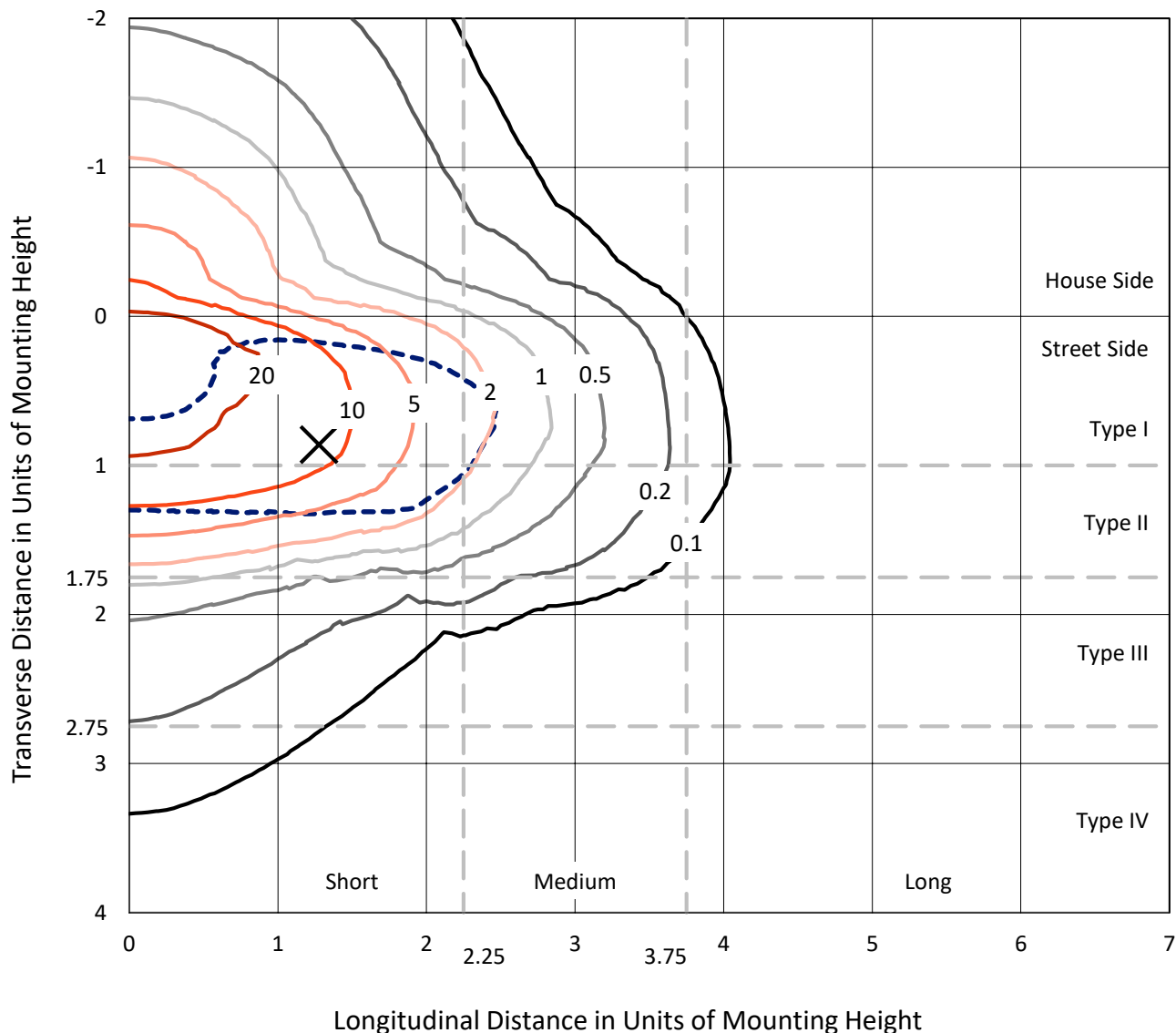
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

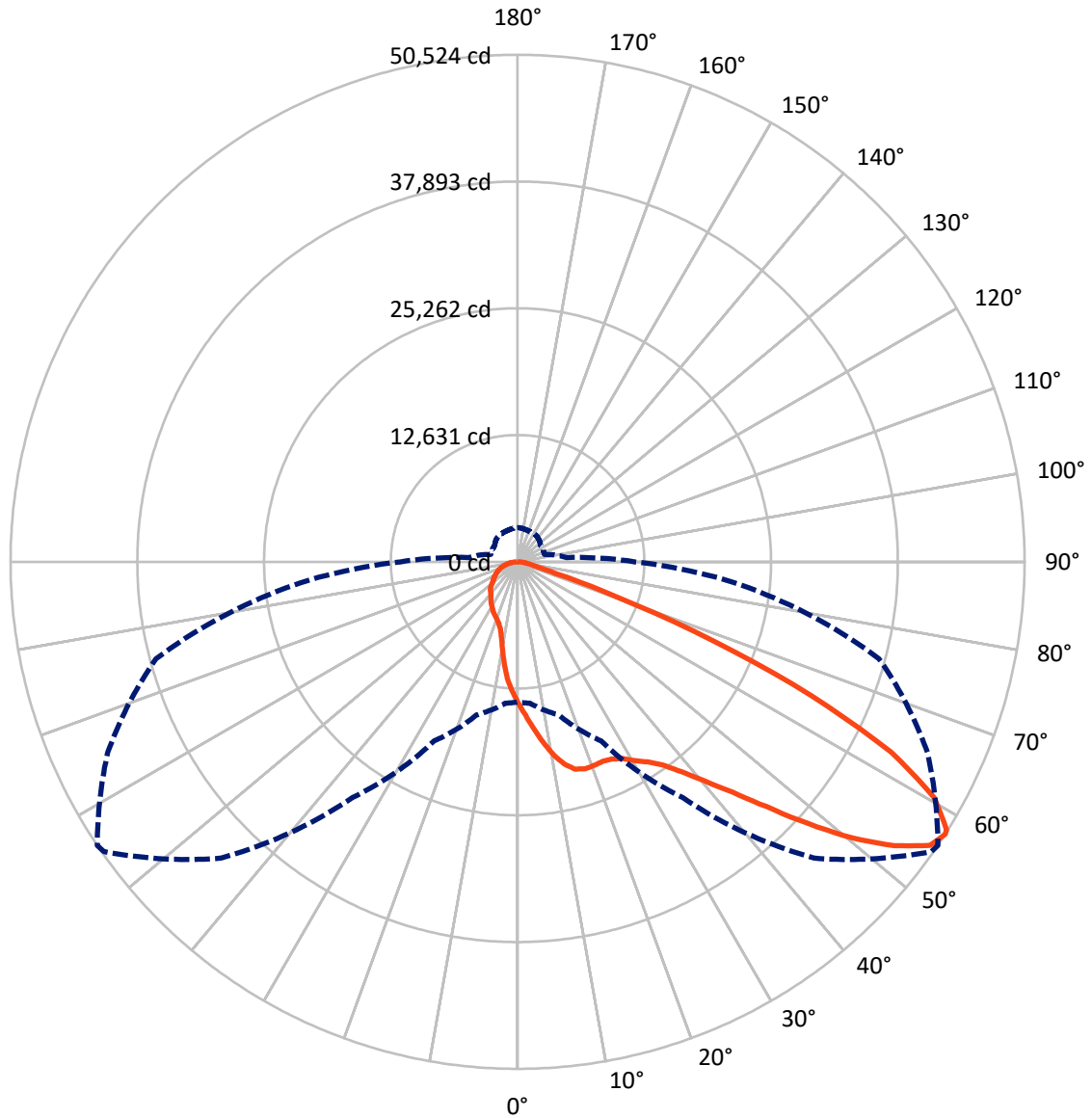
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.4 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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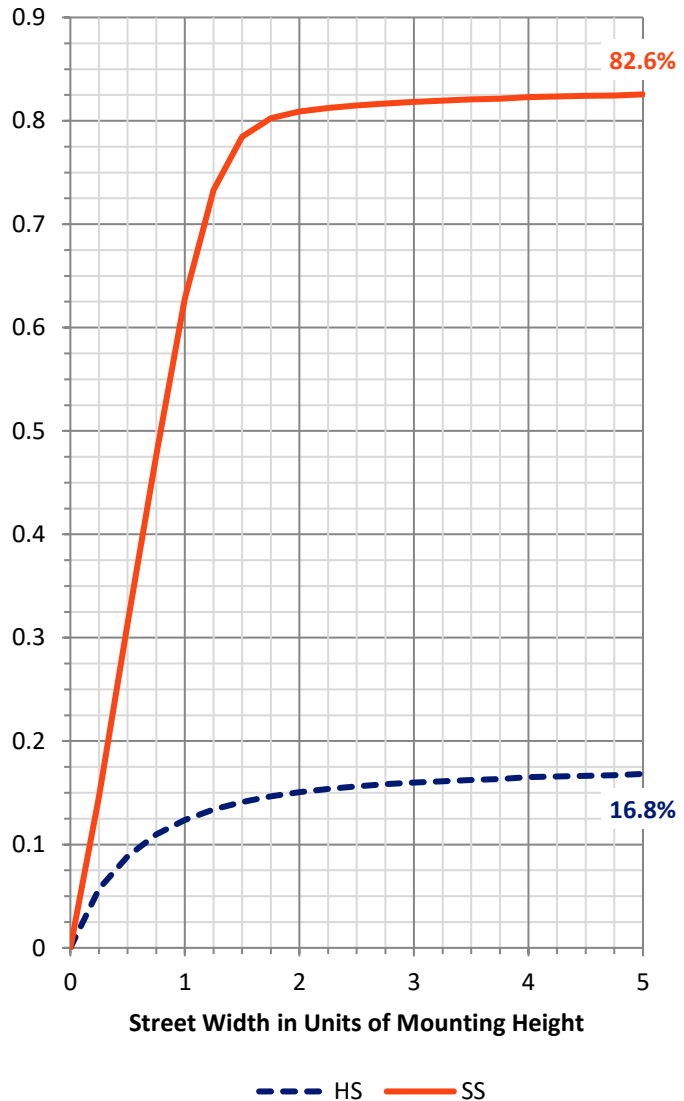
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10996.9	0.0	10996.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	52798.1	0.0	52798.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	63795.0	0.0	63795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.7	2.1
10°-20°	3821.4	6.0
20°-30°	6224.4	9.8
30°-40°	9304.8	14.6
40°-50°	14113.4	22.1
50°-60°	15818.7	24.8
60°-70°	9343.1	14.6
70°-80°	3061.2	4.8
80°-90°	756.3	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°	63795.0	100.0
0°-180°	63795.0	100.0

Coefficient of Utilization

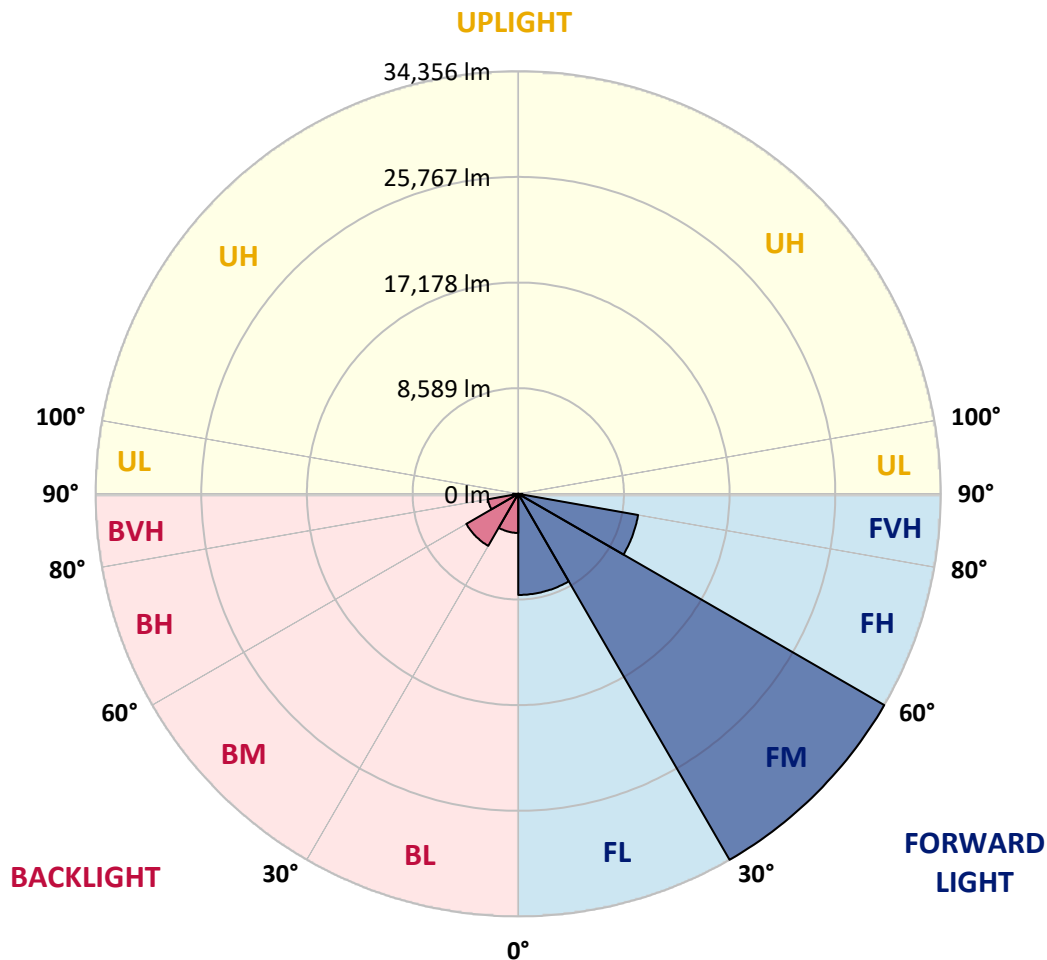


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8217.8	12.9			
FM (30°-60°)	34355.7	53.9			
FH (60°-80°)	9891.6	15.5			G4/12000
FVH (80°-90°)	333.0	0.5			G3/500
BL (0°-30°)	3179.8	5.0	B4/5000		
BM (30°-60°)	4881.2	7.7	B3/5000		
BH (60°-80°)	2512.7	3.9	B4/5000		G4/5000
BVH (80°-90°)	423.3	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°	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8
2.5°	16247.9	16397.0	16331.2	16103.2	15927.8	15680.1	15403.8	15320.5	15028.9	14702.3	14309.8
5°	18819.6	18745.1	18637.6	18282.5	17907.6	17471.3	16778.5	16668.9	16019.9	15281.1	14500.6
7.5°	20284.1	20277.6	20214.0	20005.7	19663.7	19093.7	18258.4	18129.0	17149.0	15960.7	14750.5
10°	20071.5	20056.1	20161.4	20378.4	20481.5	20363.1	19659.3	19530.0	18326.3	16712.7	15039.9
12.5°	18863.5	18872.2	19041.0	19497.1	20117.5	20862.9	20748.9	20685.4	19547.5	17563.4	15390.7
15°	17922.9	17942.7	18076.4	18473.2	19205.5	20558.2	21411.0	21433.0	20729.2	18501.7	15800.7
17.5°	17510.7	17552.4	17613.8	17892.2	18563.1	19950.9	21568.9	21687.3	21764.0	19475.1	16195.3
20°	17642.3	17681.8	17699.3	17876.9	18427.2	19582.6	21459.3	21671.9	22557.7	20391.6	16589.9
22.5°	18232.0	18256.2	18267.1	18313.2	18740.7	19687.8	21386.9	21610.5	23132.1	21213.7	16888.1
25°	19209.9	19192.3	19122.2	19063.0	19350.2	20104.4	21553.5	21766.2	23599.1	21959.1	17083.2
27.5°	20380.6	20358.7	20222.8	20060.5	20224.9	20753.3	22033.7	22202.5	24017.8	22656.3	17181.9
30°	21785.9	21728.9	21472.4	21279.5	21343.1	21726.7	22825.1	22978.6	24664.6	23447.8	17278.4
32.5°	23410.5	23349.1	22978.6	22658.5	22658.5	22978.6	23640.7	23767.9	25212.7	24342.3	17434.0
35°	25445.1	25368.3	24886.0	24348.9	24197.6	24359.8	24752.3	24842.2	26199.3	25469.2	17716.8
37.5°	27843.6	27740.5	27115.7	26396.6	26065.5	26056.7	26339.6	26523.7	27775.6	26949.1	18197.0
40°	30248.6	30176.3	29630.4	29064.7	28415.8	28207.5	28643.8	28700.8	29836.5	28786.3	18810.8
42.5°	32107.8	32094.6	31993.8	32068.3	31404.0	30983.1	31325.1	31371.1	32353.3	30774.8	19464.2
45°	33090.0	33111.9	33600.8	34683.9	34929.4	34622.5	34791.3	34804.4	35229.8	32780.9	20062.7
47.5°	32302.9	32416.9	33653.4	36076.0	38086.5	39105.9	38825.3	38987.6	38018.5	34504.1	20531.9
50°	29235.7	29376.0	31480.8	35455.6	39559.8	43444.7	43297.8	43260.6	40267.9	35766.9	20786.2
52.5°	25436.3	25545.9	27282.3	32230.6	38478.9	45843.2	47191.5	46998.6	42267.4	36711.8	20834.4
55°	19650.5	19821.5	21485.6	25793.7	34107.3	44926.8	50054.8	49881.6	44089.3	37207.3	20777.4
57°	13970.0	14149.8	15802.9	19685.6	28692.0	41754.4	50339.8	50524.0	45073.7	37290.6	20841.0
57.5°	12466.0	12650.2	14287.9	18058.8	27003.9	40607.7	50094.3	50401.2	45251.3	37277.5	20876.1
60°	6276.9	6347.0	7390.6	10080.7	17070.1	32829.1	46891.2	47682.6	45411.3	36632.9	21027.4
62.5°	3902.5	3852.1	3819.2	4643.5	8304.8	21770.6	40281.1	41804.8	42348.5	35071.9	20661.2
65°	3431.1	3336.8	2975.1	2909.3	3667.9	10574.0	30334.1	32230.6	35804.2	32612.0	19788.7
67.5°	3222.8	3130.8	2723.0	2477.4	2479.6	4191.9	18832.8	20968.2	27891.8	28453.0	17730.0
70°	3008.0	2924.7	2543.2	2253.8	2111.3	2321.8	8664.4	10284.6	18181.6	22364.7	14818.5
72.5°	2731.7	2674.7	2313.0	2014.8	1863.5	1738.6	3317.1	3917.8	10525.7	15020.2	10291.2
75°	2442.3	2389.7	2080.6	1795.6	1611.4	1368.1	1867.9	2012.6	5347.3	7684.4	5066.7
77.5°	2124.4	2093.7	1850.4	1587.3	1440.4	1133.5	1322.0	1392.2	2293.3	3295.2	2541.0
80°	1690.3	1749.5	1618.0	1414.1	1278.2	907.7	936.2	982.2	1335.2	1609.2	1442.6
82.5°	1100.6	1203.6	1267.2	1148.8	1052.4	714.7	673.1	692.8	870.4	982.2	627.0
85°	458.2	515.2	833.1	752.0	699.4	521.8	451.6	460.4	539.3	559.1	256.5
87.5°	203.9	217.0	366.1	344.2	296.0	179.8	192.9	210.5	287.2	271.9	98.7
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°	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8	14149.8
2.5°	14162.9	13978.8	13663.1	13314.5	13029.5	12801.5	12571.3	12413.4	12229.2	12130.6	12080.2
5°	14173.9	13812.2	13147.9	12466.0	11856.5	11299.7	10769.1	10361.3	9979.8	9773.7	9716.7
7.5°	14219.9	13676.2	12602.0	11479.4	10396.4	9407.6	8644.7	8166.7	7822.5	7669.0	7625.2
10°	14257.2	13516.2	11926.7	10264.8	8791.5	7789.6	7197.7	6930.2	6811.8	6792.1	6772.3
12.5°	14344.9	13351.8	11216.3	8997.6	7544.1	6851.3	6645.2	6627.6	6660.5	6708.8	6708.8
15°	14483.0	13189.5	10405.2	7910.2	6750.4	6507.1	6548.7	6645.2	6735.1	6809.6	6820.6
17.5°	14583.9	12990.0	9532.6	7039.8	6327.3	6393.1	6542.1	6678.1	6770.2	6842.5	6849.1
20°	14656.2	12680.9	8600.8	6375.5	6083.9	6287.8	6474.2	6594.8	6658.3	6730.7	6741.6
22.5°	14619.0	12266.5	7774.3	5899.8	5886.6	6134.4	6311.9	6456.6	6408.4	6338.2	6384.3
25°	14439.2	11696.5	6923.6	5544.6	5678.3	5928.3	6147.5	6051.0	5888.8	5858.1	5875.6
27.5°	14119.1	10968.6	6136.5	5215.7	5437.2	5737.5	5724.4	5627.9	5570.9	5531.4	5555.6
30°	13774.9	10179.3	5448.1	4928.5	5169.7	5417.4	5367.0	5364.8	5307.8	5244.2	5274.9
32.5°	13435.1	9385.7	4902.2	4691.7	4968.0	5000.9	5110.5	5143.4	5031.6	4897.8	4889.1
35°	13139.1	8635.9	4487.9	4476.9	4724.6	4729.0	4889.1	4843.0	4564.6	4426.5	4426.5
37.5°	12917.7	7888.3	4172.1	4284.0	4404.5	4518.5	4599.7	4408.9	4362.9	4286.2	4284.0
40°	12821.2	7230.6	3974.8	4137.1	4178.7	4323.4	4115.1	4189.7	4211.6	4172.1	4172.1
42.5°	12720.3	6658.3	3803.8	4025.3	4018.7	3998.9	3893.7	3990.2	4077.9	4080.1	4073.5
45°	12619.5	6165.0	3652.5	3786.3	3878.4	3665.7	3685.4	3788.5	3911.3	3955.1	3955.1
47.5°	12507.7	5774.8	3514.4	3534.2	3676.7	3534.2	3518.8	3597.7	3742.4	3812.6	3827.9
50°	12262.1	5424.0	3356.6	3312.7	3352.2	3400.4	3413.6	3450.8	3610.9	3722.7	3749.0
52.5°	11922.3	5110.5	3154.9	3108.8	3108.8	3290.8	3352.2	3363.2	3499.1	3632.8	3659.1
55°	11639.5	4911.0	2946.6	2937.8	2929.1	3174.6	3279.8	3297.4	3391.7	3496.9	3510.0
57°	11659.2	4895.6	2786.5	2795.3	2793.1	3056.2	3211.9	3249.1	3297.4	3387.3	3402.6
57.5°	11670.2	4906.6	2751.5	2755.9	2753.7	3023.3	3192.1	3233.8	3271.1	3365.3	3380.7
60°	11834.6	4935.1	2609.0	2560.7	2571.7	2847.9	3080.3	3132.9	3157.1	3282.0	3301.8
62.5°	11591.3	4807.9	2495.0	2378.8	2378.8	2663.8	2924.7	3008.0	3045.3	3214.1	3247.0
65°	10885.3	4450.6	2361.2	2172.7	2194.6	2479.6	2738.3	2874.2	2931.2	3141.7	3176.8
67.5°	9795.7	4036.2	2218.7	1988.5	2010.4	2286.7	2545.4	2692.3	2782.2	3062.8	3091.3
70°	8377.2	3529.8	2025.8	1793.4	1819.7	2076.2	2317.4	2484.0	2617.7	2988.2	2997.0
72.5°	6176.0	2894.0	1756.1	1578.5	1607.0	1830.7	2087.2	2280.1	2459.9	2801.9	2797.5
75°	3672.3	2262.6	1458.0	1361.5	1381.2	1589.5	1878.9	2113.5	2383.1	2729.5	2771.2
77.5°	2227.5	1703.5	1188.3	1140.1	1164.2	1376.8	1729.8	1979.7	2350.3	2573.9	2560.7
80°	1346.1	1216.8	949.3	918.6	942.7	1177.3	1600.5	1878.9	2054.3	2199.0	2199.0
82.5°	703.8	743.2	697.2	673.1	706.0	955.9	1455.8	1639.9	1815.3	1558.8	1455.8
85°	287.2	388.1	423.1	420.9	440.7	662.1	1256.2	1403.1	1170.7	1111.5	1137.9
87.5°	96.5	164.4	206.1	177.6	186.4	416.6	870.4	677.5	804.6	561.3	532.8
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)