

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: McGRAW-EDISON

Report Number: P533948

Luminaire Tested: **GALN-SA9B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36989 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 364
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



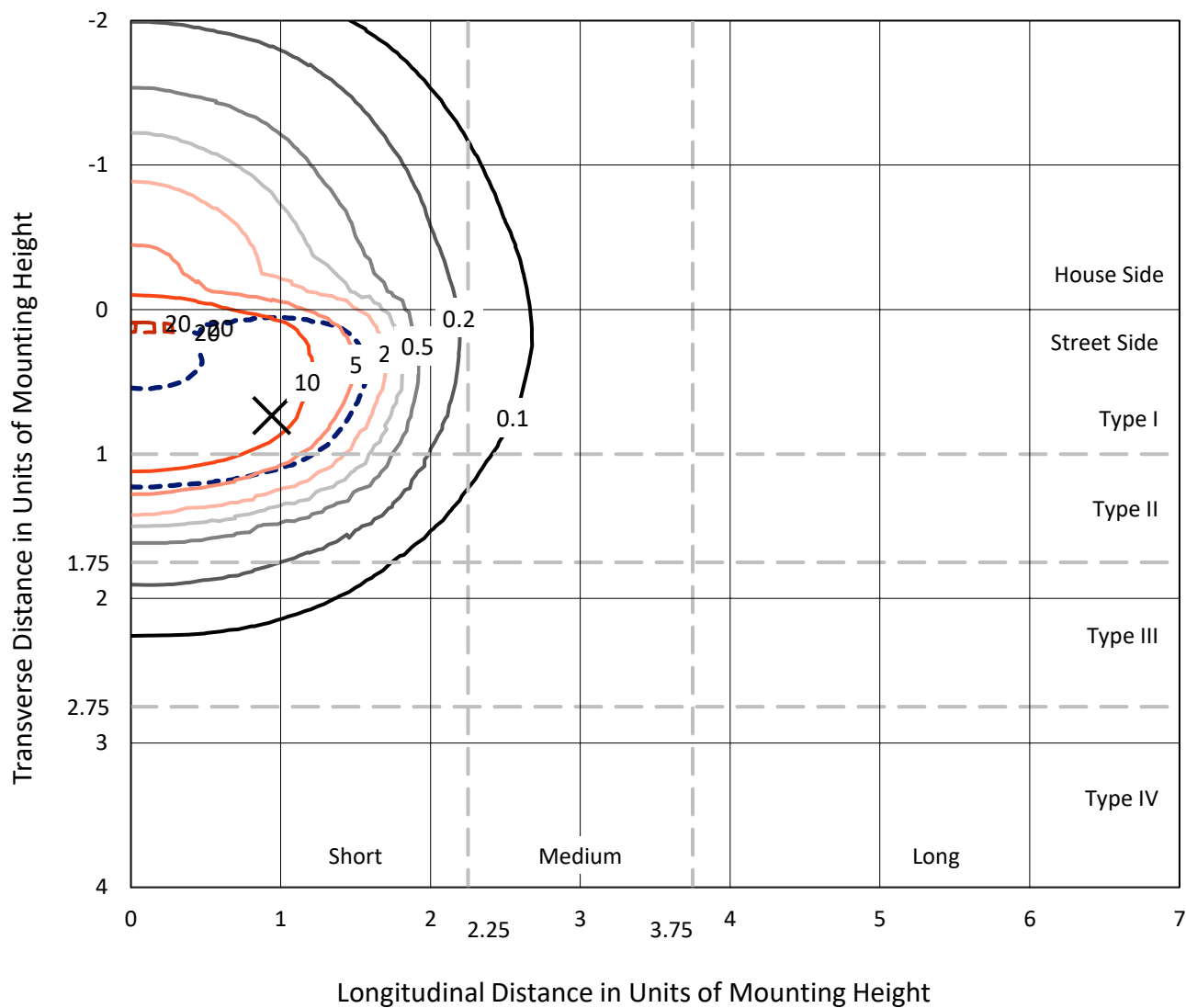
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

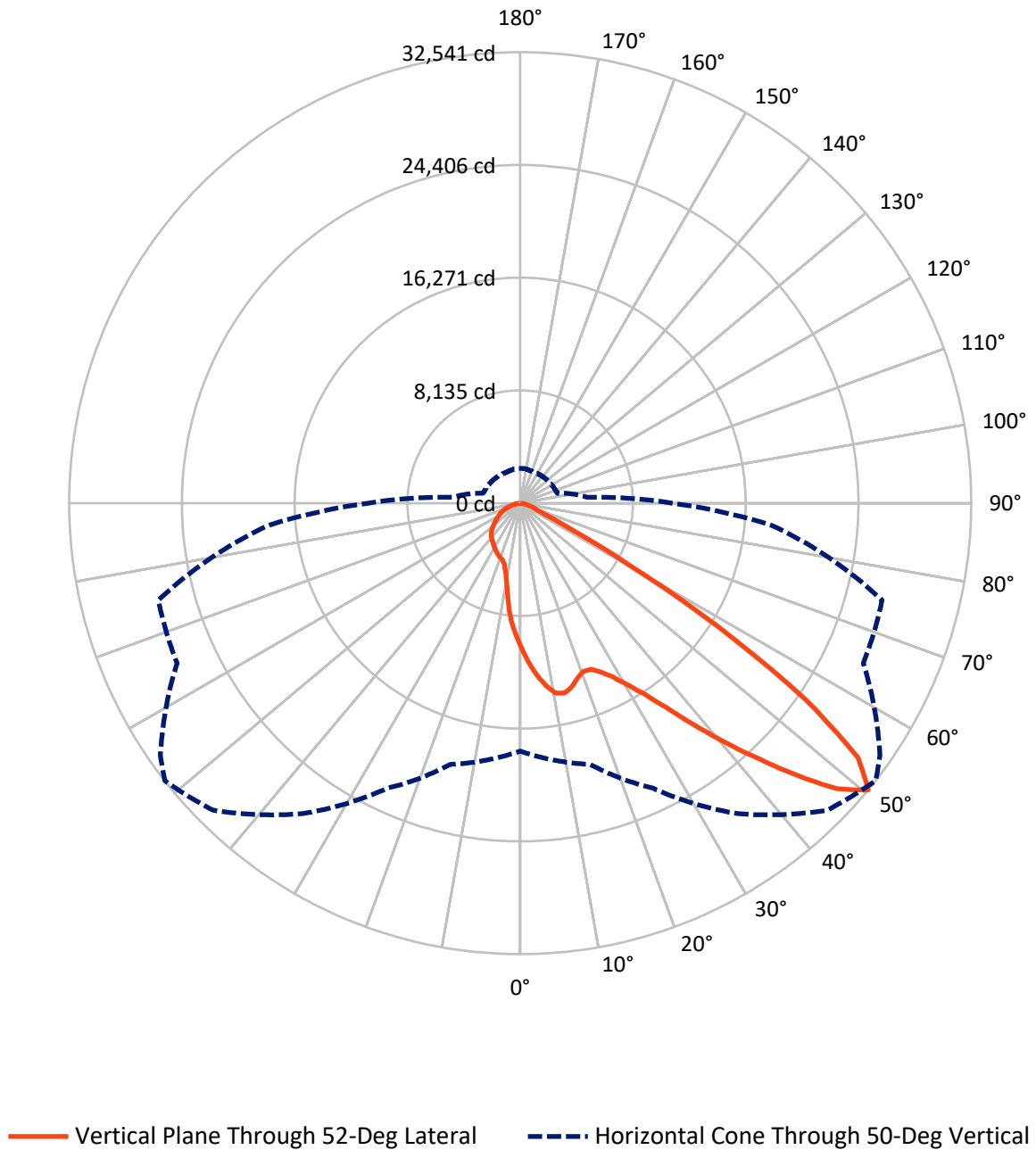


Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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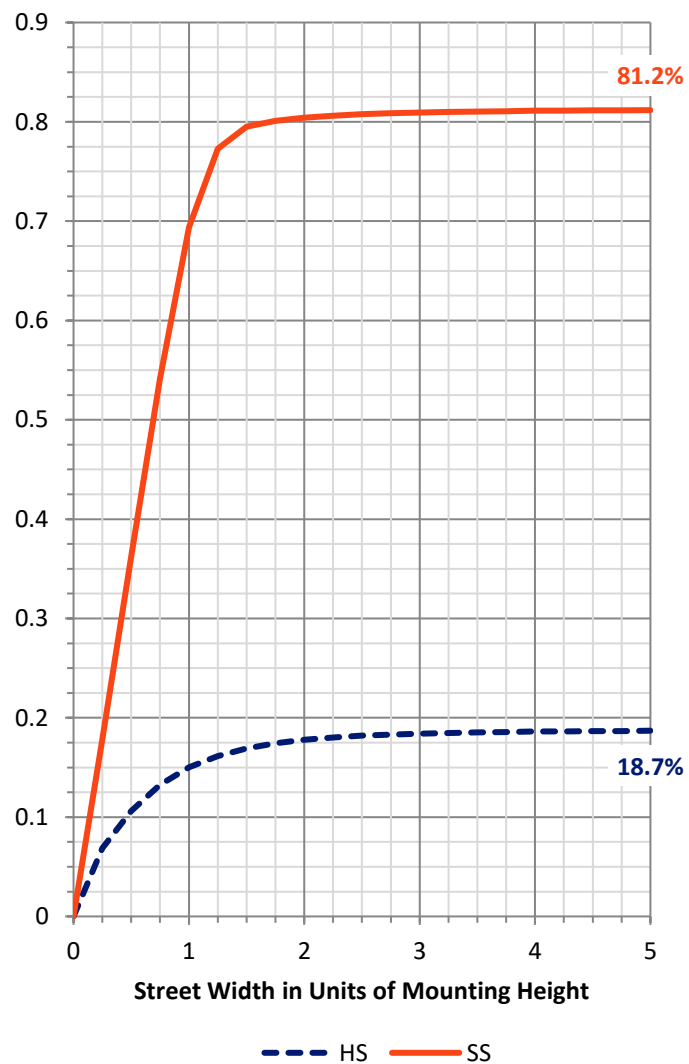
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6953.1	0.0	6953.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30035.9	0.0	30035.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	36989.0	0.0	36989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	961.0	2.6
10°-20°	2575.8	7.0
20°-30°	4338.8	11.7
30°-40°	7280.8	19.7
40°-50°	11137.8	30.1
50°-60°	8120.4	22.0
60°-70°	1807.2	4.9
70°-80°	651.8	1.8
80°-90°	115.4	0.3
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°	36989.0	100.0
0°-180°	36989.0	100.0

Coefficient of Utilization



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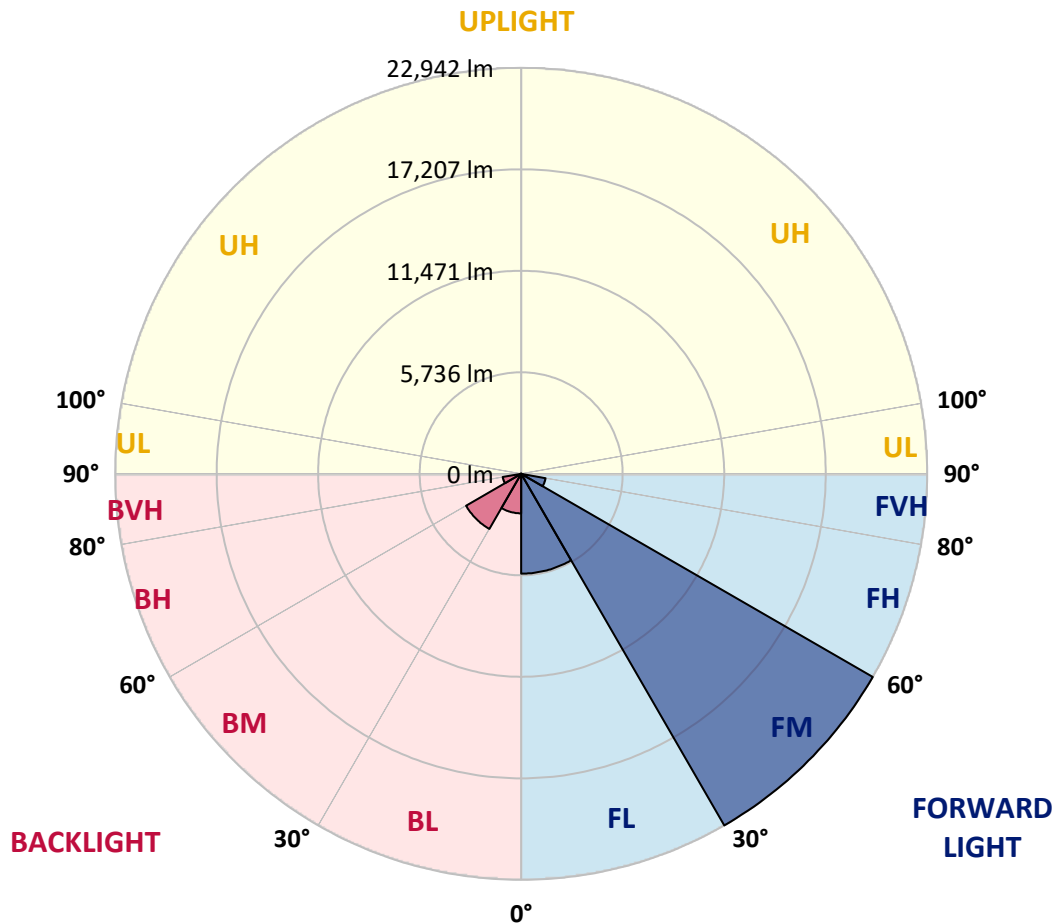
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5642.1	15.3			
FM	(30°-60°)	22942.5	62.0			
FH	(60°-80°)	1399.7	3.8			G1/1800
FVH	(80°-90°)	51.7	0.1			G1/100
BL	(0°-30°)	2233.5	6.0	B3/2500		
BM	(30°-60°)	3596.6	9.7	B3/5000		
BH	(60°-80°)	1059.3	2.9	B3/2500		G3/2500
BVH	(80°-90°)	63.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6
2.5°	12276.5	12040.3	12067.0	11897.6	11714.9	11661.4	11474.1	11295.8	11162.1	10876.8	10613.8
5°	13417.7	13346.4	13239.4	13105.7	12967.5	12628.7	12437.0	12214.1	11723.8	11282.5	10845.6
7.5°	13582.6	13569.3	13627.2	13627.2	13676.3	13547.0	13275.1	13119.0	12597.5	11879.8	11068.5
10°	12423.6	12463.8	12744.6	13110.1	13618.3	13970.5	13925.9	13885.8	13315.2	12334.5	11331.5
12.5°	11500.9	11411.7	11576.7	11888.7	12651.0	13502.4	14077.5	14081.9	13934.8	13061.1	11523.2
15°	10979.3	11041.7	11086.3	11233.4	11808.5	12793.6	13805.5	14104.2	14750.6	13573.7	11826.3
17.5°	11313.7	11104.2	11095.2	11130.9	11425.1	12165.1	13301.8	13814.4	15196.3	14233.5	12200.8
20°	11750.5	11746.1	11621.3	11576.7	11572.2	12232.0	12971.9	13667.3	15432.6	15089.4	12579.7
22.5°	12517.3	12517.3	12312.2	12214.1	12004.6	12544.0	13016.5	13489.0	15824.9	15677.8	12762.4
25°	13801.1	13591.6	13239.4	12998.7	12878.3	13070.0	13489.0	13912.5	16168.1	16301.8	13141.3
27.5°	14986.8	14657.0	14483.1	14068.5	13908.1	13796.6	14180.0	14607.9	16569.3	17273.6	13346.4
30°	16333.1	16275.1	15963.1	15428.1	15031.4	14826.3	15178.5	15602.0	17304.8	18267.7	13818.9
32.5°	18740.2	18214.2	17790.7	17135.4	16489.1	16052.2	16399.9	16680.8	18526.2	19306.3	14336.0
35°	21339.1	21169.7	20438.6	19257.3	18267.7	17875.4	18080.5	18290.0	19948.3	20893.3	15205.3
37.5°	23893.3	23661.5	23059.7	22065.7	20862.1	20064.2	20211.3	20456.4	21544.1	23033.0	16266.2
40°	25729.9	25444.6	25141.5	24994.4	23799.7	22707.6	22622.9	22685.3	23701.6	25039.0	17443.0
42.5°	25863.6	26215.8	26309.4	26902.3	26621.4	25725.4	25203.9	25217.3	25761.1	27022.6	18633.2
45°	25582.8	25257.4	25948.3	27566.5	28493.7	28912.7	28034.5	27923.1	27036.0	28172.7	19226.1
47.5°	22636.3	22725.4	23893.3	26452.1	29131.1	31003.4	30798.3	30428.3	27718.0	28132.6	19132.5
50°	17893.3	18432.6	19515.9	22703.1	27348.1	31333.3	32541.3	31685.4	27312.4	27027.1	18178.5
52.5°	11915.5	12138.3	12851.6	16966.0	21989.9	28007.8	30535.3	30731.5	26937.9	25578.3	16970.5
55°	5304.7	5286.8	6289.8	8861.9	13796.6	21312.3	24949.8	26144.5	25498.1	24102.8	15793.7
57.5°	2246.7	2322.5	2732.6	3829.2	6784.6	12860.5	16903.6	17951.2	19609.5	19792.2	12116.1
60°	1520.1	1529.0	1640.4	1916.8	2839.6	6040.2	8866.4	10123.5	11309.2	11229.0	6428.0
62.5°	1194.7	1225.9	1310.6	1422.0	1685.0	2741.5	3967.4	4667.2	4743.0	3989.7	2438.4
65°	1020.8	1025.3	1110.0	1203.6	1319.5	1595.9	1912.4	1948.0	1970.3	1899.0	1792.0
67.5°	842.5	851.4	918.3	1025.3	1132.3	1221.4	1310.6	1355.1	1457.7	1658.3	1631.5
70°	668.7	682.0	740.0	829.1	927.2	980.7	1092.1	1132.3	1225.9	1381.9	1444.3
72.5°	508.2	512.6	561.7	624.1	713.2	766.7	860.3	904.9	967.3	1101.1	1159.0
75°	365.5	378.9	414.6	445.8	459.1	494.8	584.0	633.0	722.1	780.1	784.6
77.5°	191.7	200.6	209.5	209.5	254.1	321.0	378.9	405.7	468.1	512.6	490.3
80°	75.8	80.2	102.5	138.2	178.3	231.8	271.9	285.3	338.8	365.5	378.9
82.5°	44.6	49.0	66.9	98.1	129.3	164.9	196.1	209.5	245.2	276.4	285.3
85°	22.3	26.7	40.1	62.4	84.7	102.5	98.1	93.6	93.6	89.2	93.6
87.5°	8.9	8.9	13.4	13.4	13.4	17.8	22.3	22.3	22.3	26.7	26.7
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°	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6	10426.6
2.5°	10440.0	10261.7	10096.7	9793.6	9463.7	9370.1	8986.7	8848.6	8750.5	8634.6	8598.9
5°	10493.5	10257.2	9726.7	9116.0	8630.1	8006.0	7595.9	7154.6	6833.7	6753.4	6731.1
7.5°	10604.9	10199.2	9285.4	8362.7	7368.6	6521.6	5875.3	5527.6	5220.0	5202.1	5170.9
10°	10729.7	10025.4	8804.0	7355.2	6084.8	5300.2	4912.4	4760.8	4685.1	4667.2	4658.3
12.5°	10832.2	9989.7	8264.6	6374.5	5175.4	4702.9	4587.0	4573.6	4604.8	4613.7	4631.6
15°	10876.8	9847.1	7613.8	5496.4	4609.3	4435.4	4484.5	4537.9	4560.2	4618.2	4573.6
17.5°	10961.5	9664.3	6811.4	4801.0	4292.8	4324.0	4408.7	4471.1	4506.7	4546.9	4488.9
20°	11006.1	9499.4	6058.0	4386.4	4181.3	4239.3	4355.2	4404.2	4448.8	4466.6	4399.8
22.5°	10966.0	9160.6	5393.8	4052.1	4074.3	4150.1	4252.7	4306.1	4279.4	4208.1	4168.0
25°	10859.0	8683.6	4702.9	3838.1	3922.8	4056.5	4136.8	4096.6	4047.6	4007.5	3994.1
27.5°	10854.5	8099.7	4203.6	3641.9	3793.5	3976.3	3949.5	3913.9	3936.2	3905.0	3869.3
30°	10876.8	7533.5	3793.5	3530.5	3699.9	3789.1	3820.3	3784.6	3811.3	3753.4	3771.2
32.5°	10760.9	6980.8	3526.0	3401.2	3588.5	3584.0	3686.5	3713.3	3650.9	3530.5	3548.3
35°	10809.9	6535.0	3298.7	3343.3	3463.6	3463.6	3543.9	3512.7	3347.7	3276.4	3294.2
37.5°	11148.7	6098.1	3187.3	3263.0	3343.3	3378.9	3352.2	3218.5	3178.3	3178.3	3187.3
40°	11469.7	5723.7	3120.4	3245.2	3231.8	3254.1	3058.0	3071.4	3071.4	3075.8	3053.5
42.5°	11755.0	5469.6	3066.9	3138.2	3160.5	3044.6	2924.3	2910.9	2942.1	2937.6	2919.8
45°	11857.5	5260.1	2991.1	3017.9	3035.7	2844.0	2786.1	2759.3	2795.0	2808.4	2826.2
47.5°	11465.2	5086.2	2906.4	2852.9	2817.3	2692.5	2616.7	2567.6	2612.2	2688.0	2705.8
50°	10961.5	4858.9	2772.7	2670.2	2594.4	2540.9	2487.4	2438.4	2469.6	2523.1	2509.7
52.5°	10217.1	4502.3	2603.3	2496.3	2367.0	2380.4	2331.4	2304.6	2322.5	2322.5	2309.1
55°	9156.1	3699.9	2318.0	2242.2	2135.2	2170.9	2179.8	2144.2	2108.5	2139.7	2113.0
57.5°	6249.7	2612.2	2068.4	2068.4	1961.4	2010.4	2006.0	1921.3	1836.6	1845.5	1827.7
60°	3615.2	2081.8	1907.9	1890.1	1778.6	1818.7	1827.7	1769.7	1640.4	1649.4	1631.5
62.5°	2055.0	1778.6	1667.2	1640.4	1618.1	1653.8	1653.8	1578.0	1466.6	1475.5	1457.7
65°	1747.4	1649.4	1488.9	1484.4	1475.5	1484.4	1448.8	1368.5	1270.4	1230.3	1234.8
67.5°	1586.9	1524.5	1368.5	1328.4	1301.7	1297.2	1230.3	1154.5	1110.0	1074.3	1069.9
70°	1390.8	1341.8	1225.9	1172.4	1145.6	1083.2	1016.4	967.3	904.9	887.1	904.9
72.5°	1101.1	1096.6	1052.0	994.1	936.1	887.1	829.1	762.3	704.3	690.9	659.7
75°	762.3	771.2	780.1	771.2	722.1	659.7	592.9	539.4	468.1	427.9	419.0
77.5°	499.3	512.6	526.0	508.2	477.0	419.0	374.4	307.6	254.1	222.9	218.4
80°	365.5	383.4	392.3	378.9	343.2	298.7	249.6	196.1	156.0	129.3	129.3
82.5°	280.8	298.7	307.6	285.3	249.6	214.0	178.3	138.2	107.0	84.7	80.2
85°	98.1	93.6	111.4	115.9	138.2	129.3	107.0	80.2	62.4	44.6	40.1
87.5°	26.7	26.7	31.2	31.2	26.7	22.3	22.3	22.3	17.8	13.4	13.4
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)