

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: P532413

Luminaire Tested: **GALN-SA7D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37443 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

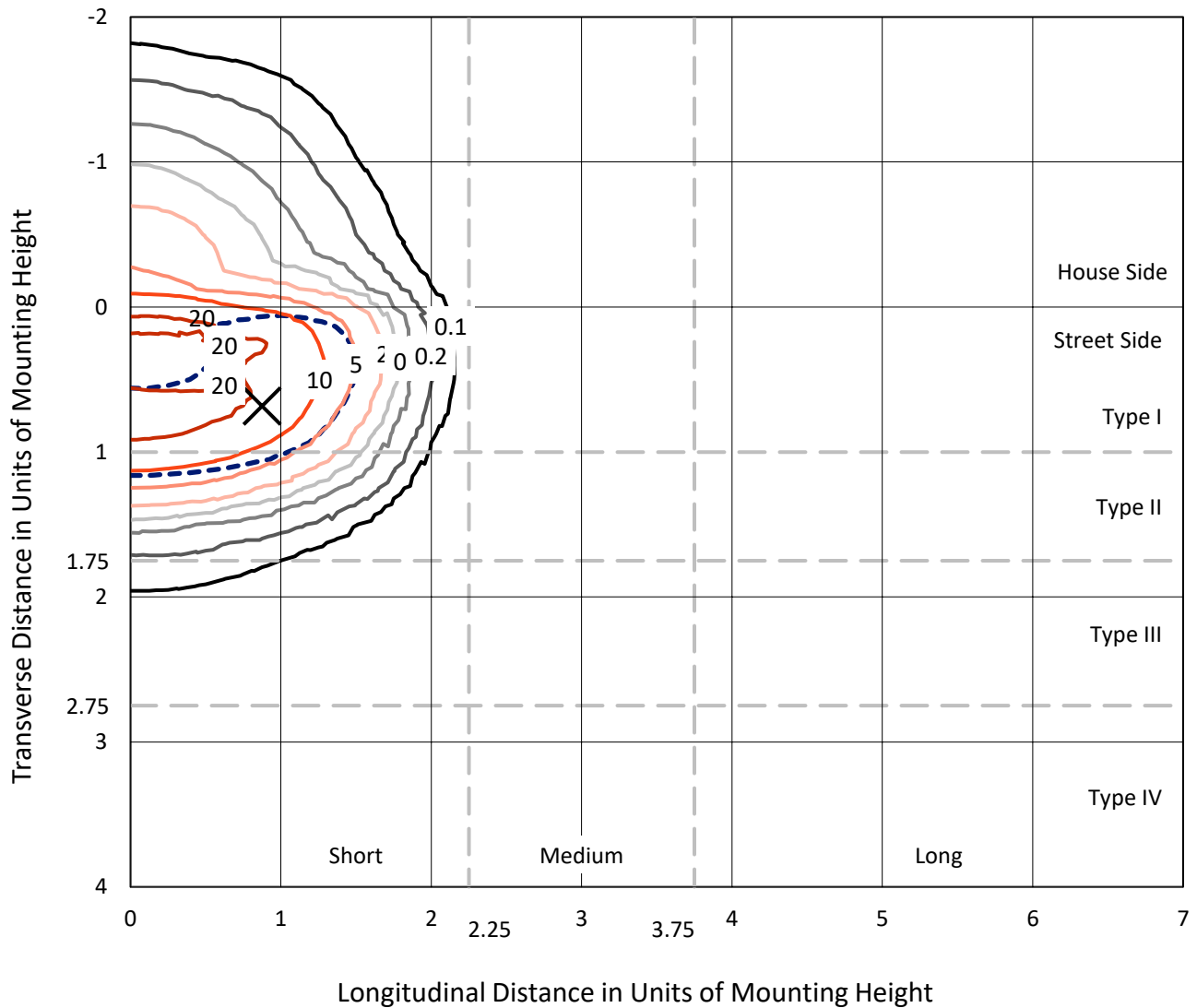
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

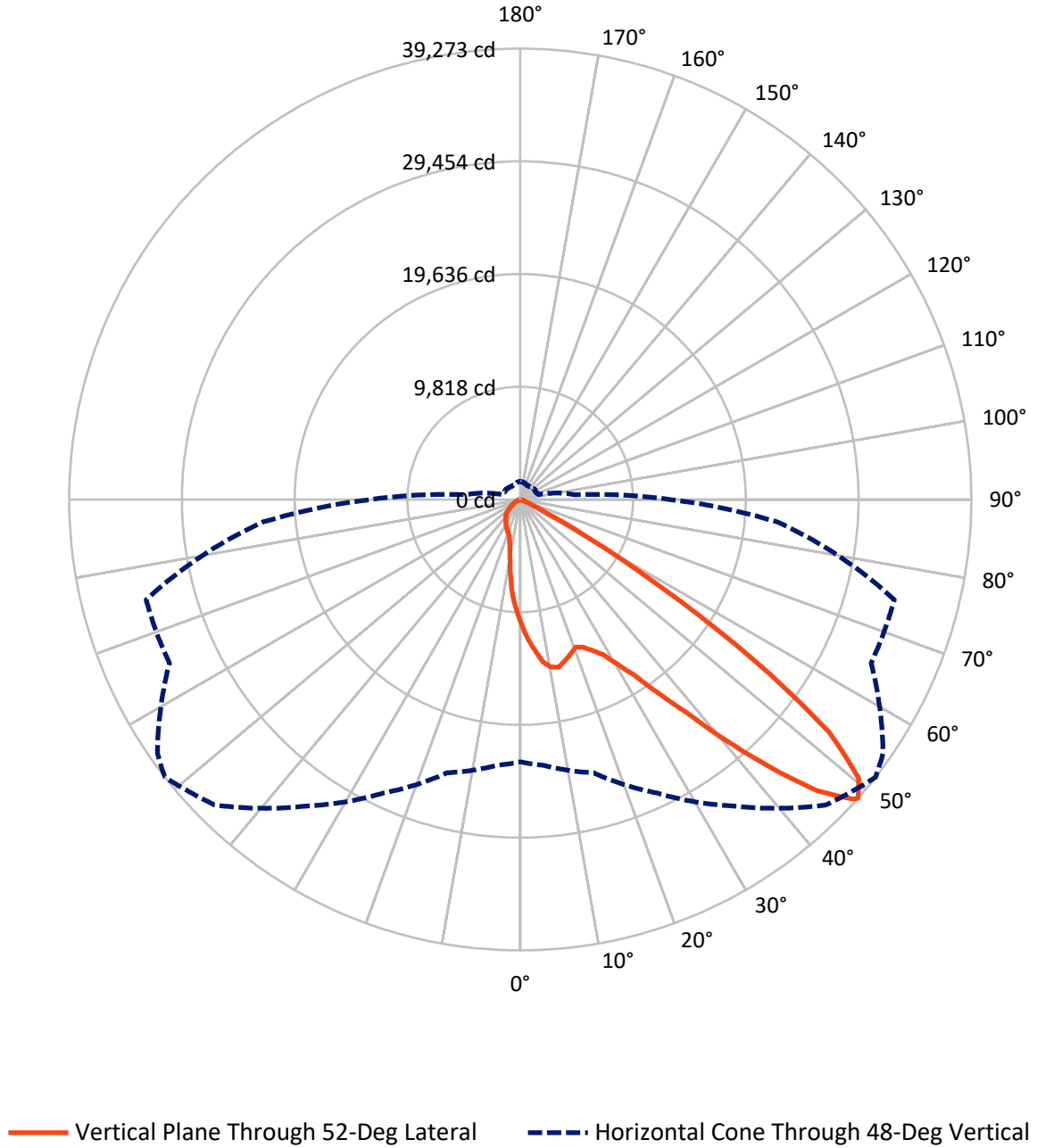
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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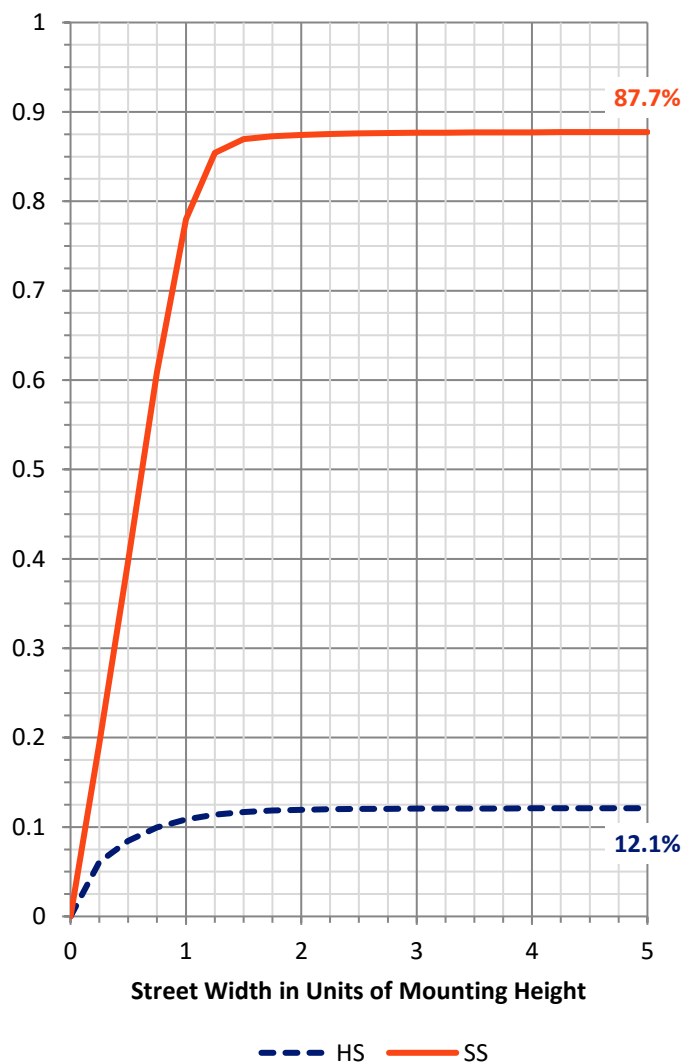
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4559.0	0.0	4559.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	32884.0	0.0	32884.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	37443.0	0.0	37443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.7	2.6
10°-20°	2586.4	6.9
20°-30°	4416.1	11.8
30°-40°	8132.2	21.7
40°-50°	12629.3	33.7
50°-60°	7600.7	20.3
60°-70°	879.1	2.3
70°-80°	170.2	0.5
80°-90°	39.4	0.1
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°	37443.0	100.0
0°-180°	37443.0	100.0

Coefficient of Utilization



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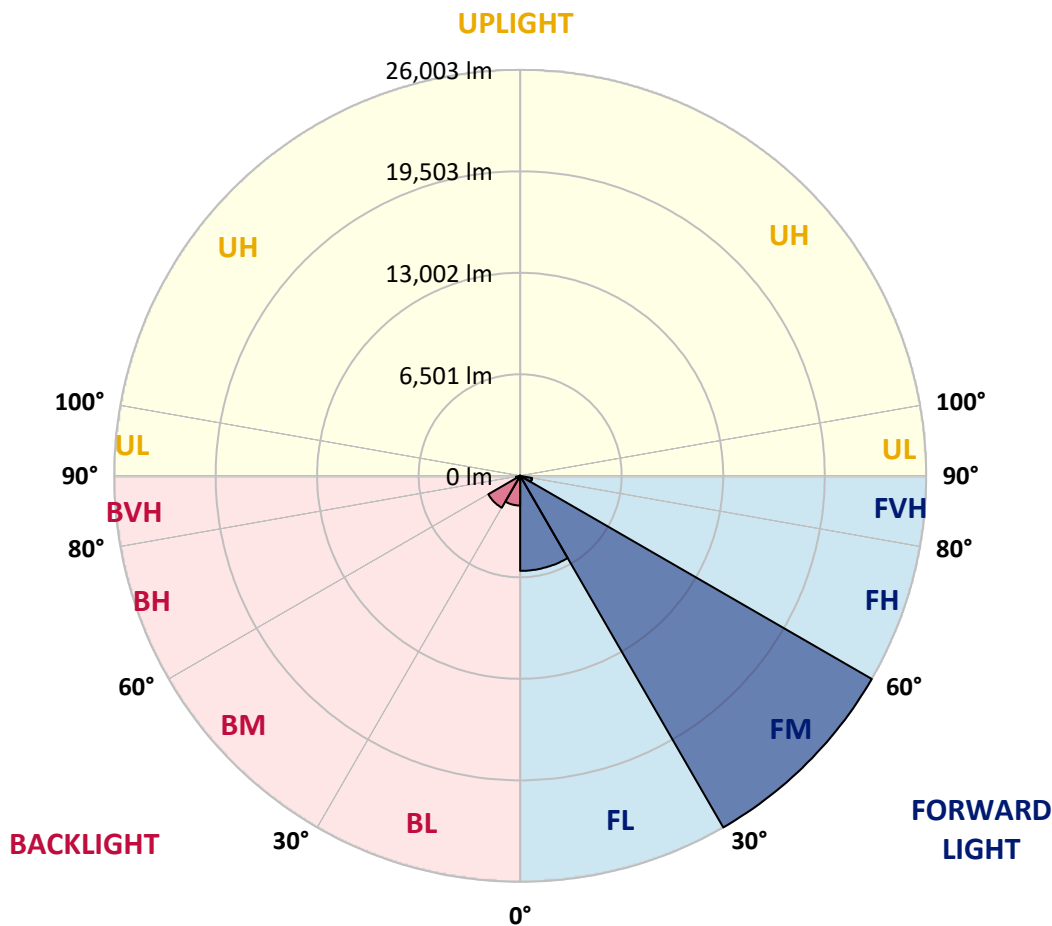
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6087.8	16.3			
FM (30°-60°)	26003.4	69.4			
FH (60°-80°)	774.1	2.1			G1/1800
FVH (80°-90°)	18.7	0.1			G1/100
BL (0°-30°)	1904.4	5.1	B3/2500		
BM (30°-60°)	2358.8	6.3	B2/2500		
BH (60°-80°)	275.2	0.7	B1/500		G1/500
BVH (80°-90°)	20.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9
2.5°	13105.4	12805.2	12832.5	12636.0	12521.4	12335.8	12084.7	12035.6	11762.7	11391.5	11014.9
5°	14284.4	14213.4	14306.2	14022.4	14033.3	13727.7	13138.2	13149.1	12521.4	11915.5	11331.5
7.5°	14360.8	14197.1	14289.9	14540.9	14688.3	14633.7	14300.8	14011.5	13416.5	12526.8	11675.3
10°	12859.8	13170.9	13269.2	13684.0	14273.5	14895.7	14857.5	14873.9	14377.2	13214.6	11970.1
12.5°	11959.2	11751.7	12084.7	12335.8	13225.5	14431.8	14983.1	15103.1	15141.4	13880.5	12264.8
15°	11549.8	11549.8	11604.4	11675.3	12319.4	13432.9	14557.3	14906.7	15730.9	14753.8	12728.8
17.5°	11806.3	11795.4	11871.8	11724.5	11964.6	12821.6	14164.3	14562.8	16391.3	15610.8	13094.5
20°	12586.9	12625.1	12576.0	12150.2	12166.6	12810.7	13727.7	14355.4	16838.9	16353.1	13580.3
22.5°	13673.1	13694.9	13416.5	12952.6	12816.1	13132.7	13978.7	14459.1	17199.1	17242.8	13727.7
25°	14928.5	14841.2	14786.6	14131.6	13716.7	13989.7	14546.4	14824.8	17422.9	18007.0	14147.9
27.5°	16669.7	16495.0	16162.1	15578.0	15272.4	14884.8	15283.3	15741.8	18061.6	19076.8	14606.4
30°	19240.6	19087.7	18438.2	17684.9	16882.6	16500.5	16626.0	16877.1	19213.3	20315.8	15212.3
32.5°	23110.5	22788.5	21849.6	20414.1	19322.4	18269.0	18236.2	18503.7	20244.9	22029.7	15932.8
35°	27373.4	27275.2	25894.2	24415.0	22302.7	20676.1	20703.4	20845.3	22220.8	24278.6	16877.1
37.5°	30206.3	30746.7	29867.9	28279.5	26505.6	24180.3	23590.8	23640.0	24933.6	26942.2	18580.1
40°	32395.1	31936.6	32040.3	31669.1	30457.4	28874.5	27569.9	27313.4	28072.1	29889.7	20272.2
42.5°	31439.9	31461.7	32100.3	32979.1	33279.3	33164.7	31832.9	31347.1	30757.6	32302.3	21882.4
45°	28743.5	29305.7	30135.3	32460.6	34502.0	36417.9	36155.9	35348.0	32613.4	34212.7	22810.3
47.5°	24442.3	24420.5	25779.6	28803.5	33339.4	37826.1	39016.0	38448.4	33928.9	33999.8	22619.2
48°	22854.0	23247.0	24649.7	28208.6	32602.5	37618.7	39272.6	38557.5	33705.1	33716.0	22455.5
50°	16893.5	16822.5	18569.2	22935.8	29120.1	35348.0	38191.8	38748.6	33699.6	32280.5	21309.3
52.5°	8924.3	9230.0	10501.8	14420.9	20588.8	28929.1	33688.7	34556.6	32509.7	29933.4	19660.8
55°	3793.5	3427.8	4404.9	6511.8	11582.5	19327.9	24715.2	26647.5	27488.1	26489.2	17199.1
57.5°	1353.7	1479.2	1703.0	2450.8	4868.8	10578.2	14737.4	16238.5	19044.1	19437.0	11719.0
60°	867.9	884.2	955.2	1124.4	1828.5	4077.4	6992.1	8187.5	9459.3	9764.9	5469.2
62.5°	671.4	676.8	709.6	736.9	867.9	1582.9	2625.4	3111.2	3231.3	2778.3	1435.5
65°	562.2	567.7	578.6	578.6	616.8	742.3	917.0	1009.8	982.5	971.6	813.3
67.5°	431.2	442.1	464.0	464.0	485.8	453.0	507.6	540.4	611.3	742.3	693.2
70°	338.4	343.9	360.2	371.2	371.2	327.5	365.7	398.5	447.6	551.3	545.8
72.5°	262.0	272.9	283.8	283.8	267.5	223.8	262.0	289.3	322.0	382.1	371.2
75°	202.0	202.0	207.4	169.2	131.0	114.6	158.3	191.0	240.2	251.1	207.4
77.5°	54.6	60.0	54.6	49.1	54.6	81.9	103.7	120.1	152.8	152.8	136.5
80°	0.0	5.5	16.4	32.7	54.6	76.4	92.8	103.7	120.1	131.0	125.5
82.5°	0.0	5.5	16.4	32.7	49.1	60.0	81.9	87.3	98.2	114.6	114.6
85°	0.0	5.5	10.9	21.8	32.7	38.2	38.2	32.7	32.7	27.3	21.8
87.5°	0.0	0.0	5.5	10.9	10.9	16.4	16.4	16.4	16.4	16.4	16.4
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°	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9	10812.9
2.5°	10867.5	10698.3	10441.8	10037.8	9650.3	9399.2	9159.0	8891.6	8744.2	8733.3	8651.4
5°	10998.5	10616.4	10005.1	9311.9	8569.6	7930.9	7286.8	6866.6	6489.9	6282.5	6244.3
7.5°	11069.5	10572.8	9584.8	8422.2	7155.8	6113.3	5392.8	4863.4	4655.9	4503.1	4497.6
10°	11216.8	10496.3	8957.1	7243.2	5676.6	4623.2	4126.5	3886.3	3771.7	3728.0	3662.5
12.5°	11326.0	10354.4	8313.0	6031.4	4486.7	3831.7	3613.4	3558.8	3564.3	3586.1	3558.8
15°	11478.8	10228.9	7445.1	4950.7	3766.2	3449.7	3449.7	3460.6	3537.0	3547.9	3542.4
17.5°	11467.9	9983.3	6550.0	4077.4	3329.6	3285.9	3302.3	3406.0	3455.1	3471.5	3433.3
20°	11598.9	9754.0	5627.5	3482.4	3083.9	3149.4	3258.6	3285.9	3345.9	3356.9	3313.2
22.5°	11560.7	9180.9	4770.6	3013.0	2898.4	3023.9	3133.1	3165.8	3149.4	3116.7	3111.2
25°	11489.7	8689.6	3984.6	2701.9	2761.9	2898.4	3002.1	2942.0	2909.3	2914.7	2920.2
27.5°	11364.2	8067.4	3335.0	2483.5	2576.3	2778.3	2772.8	2751.0	2783.7	2756.4	2783.7
30°	11342.4	7445.1	2800.1	2287.0	2439.9	2587.2	2598.2	2636.4	2674.6	2625.4	2674.6
32.5°	11375.1	6762.8	2418.0	2166.9	2358.0	2363.4	2483.5	2521.7	2494.4	2385.3	2396.2
35°	11626.2	6238.9	2139.7	2101.5	2227.0	2232.4	2347.1	2297.9	2177.9	2112.4	2150.6
37.5°	12155.7	5802.2	2008.7	2041.4	2052.3	2123.3	2128.7	2030.5	2041.4	2036.0	2057.8
40°	12832.5	5469.2	1915.9	1986.8	1975.9	2025.0	1828.5	1883.1	1932.2	1948.6	1959.5
42.5°	13296.4	5229.1	1855.8	1899.5	1877.7	1790.3	1681.2	1735.7	1774.0	1834.0	1844.9
45°	13503.9	5038.0	1784.9	1746.7	1746.7	1588.4	1544.7	1555.6	1643.0	1708.5	1697.5
47.5°	13165.4	4852.4	1659.3	1544.7	1582.9	1451.9	1402.8	1402.8	1495.6	1577.5	1561.1
48°	13034.4	4776.0	1664.8	1501.0	1528.3	1430.1	1381.0	1370.0	1473.7	1550.2	1550.2
50°	12384.9	4492.2	1522.9	1381.0	1326.4	1315.5	1282.7	1293.6	1359.1	1430.1	1430.1
52.5°	11118.6	3880.9	1288.2	1184.5	1086.2	1151.7	1168.1	1146.2	1179.0	1244.5	1239.0
55°	9279.1	2980.2	1031.6	982.5	906.1	977.0	1009.8	982.5	949.7	998.9	998.9
57.5°	5944.1	1604.7	824.2	835.1	758.7	829.7	857.0	791.5	731.4	769.6	764.2
60°	2680.0	960.7	676.8	660.5	611.3	693.2	736.9	660.5	578.6	605.9	633.2
62.5°	1004.3	682.3	513.1	502.2	491.2	567.7	589.5	529.5	447.6	464.0	469.4
65°	736.9	600.4	409.4	371.2	393.0	447.6	436.7	376.6	322.0	322.0	333.0
67.5°	627.7	524.0	333.0	289.3	289.3	294.7	272.9	240.2	223.8	234.7	245.6
70°	491.2	414.8	262.0	223.8	202.0	180.1	158.3	152.8	136.5	152.8	147.4
72.5°	316.6	278.4	202.0	169.2	152.8	125.5	103.7	98.2	81.9	76.4	76.4
75°	169.2	169.2	158.3	136.5	120.1	98.2	81.9	65.5	43.7	32.7	32.7
77.5°	120.1	131.0	141.9	131.0	109.2	81.9	65.5	43.7	21.8	10.9	10.9
80°	114.6	131.0	141.9	125.5	109.2	81.9	60.0	32.7	16.4	5.5	5.5
82.5°	103.7	120.1	131.0	114.6	98.2	71.0	54.6	32.7	16.4	5.5	5.5
85°	21.8	27.3	32.7	32.7	38.2	49.1	38.2	27.3	10.9	5.5	5.5
87.5°	16.4	16.4	16.4	16.4	16.4	16.4	10.9	10.9	5.5	5.5	5.5
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)