

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: P382608

Luminaire Tested: **GLEON-SA0A-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34873.4 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

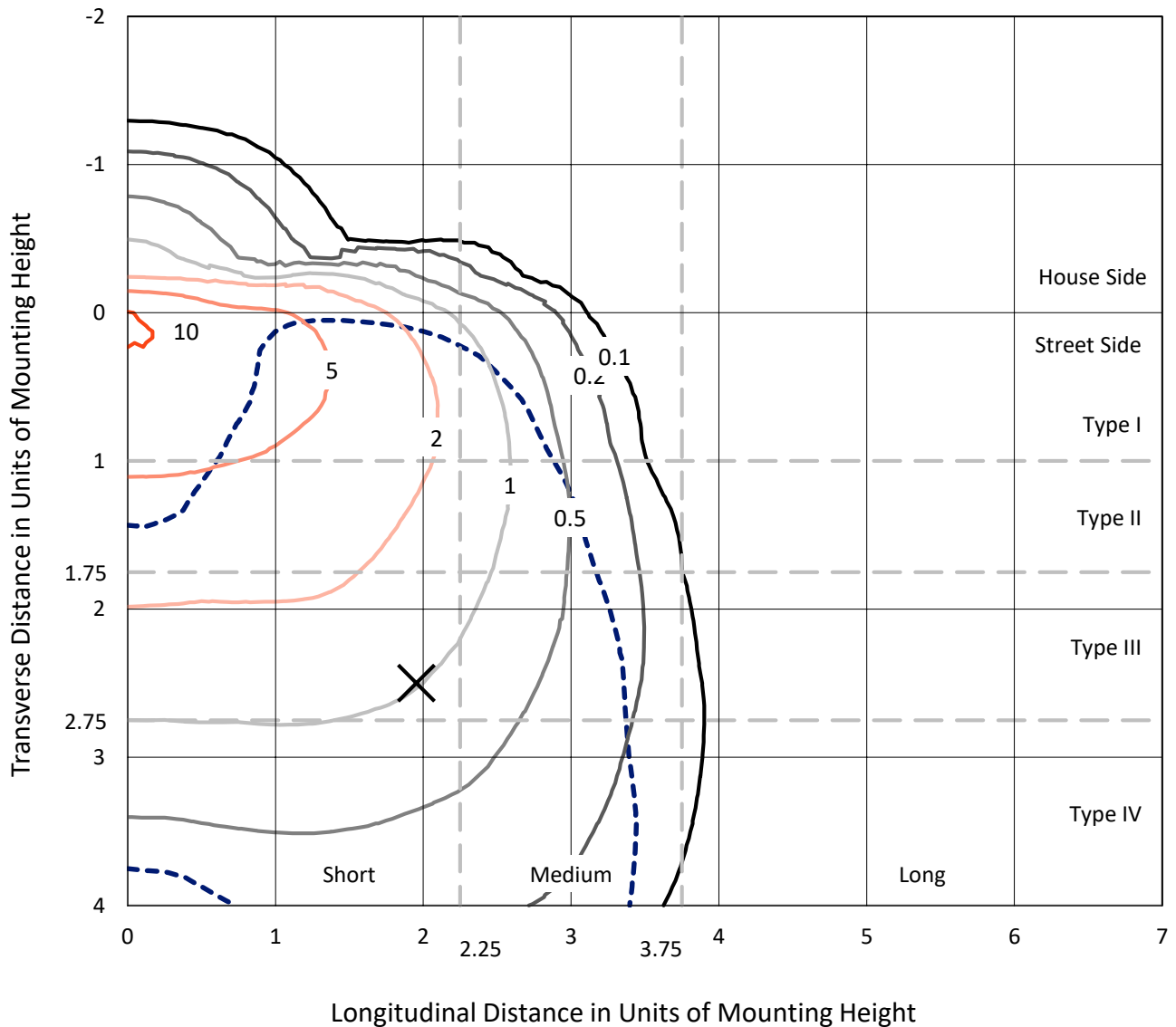
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

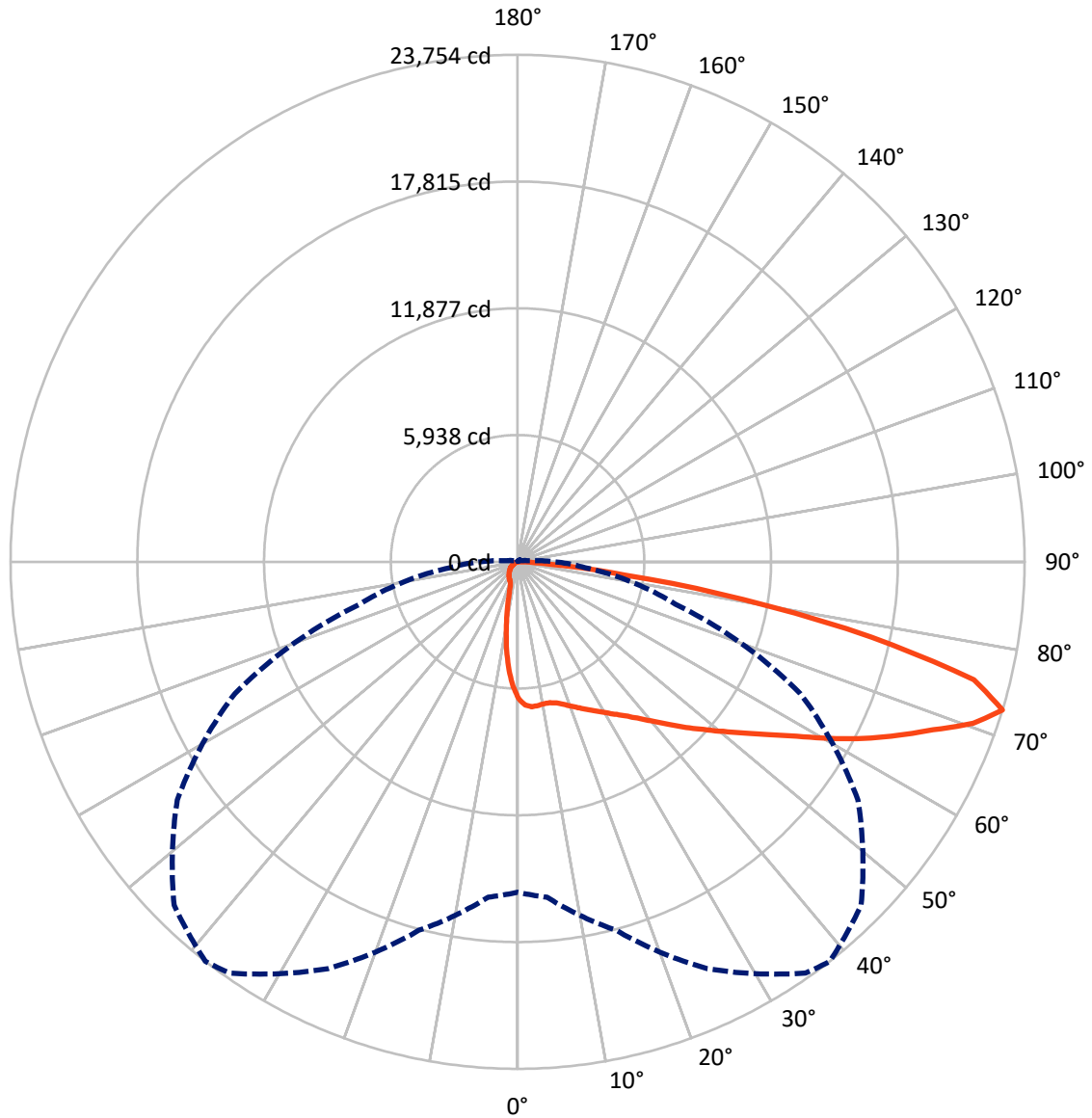
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2934.7	0.0	2934.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	31938.7	0.0	31938.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	34873.4	0.0	34873.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.5	1.6
10°-20°	1336.4	3.8
20°-30°	2125.5	6.1
30°-40°	3195.4	9.2
40°-50°	4874.8	14.0
50°-60°	6889.7	19.8
60°-70°	8642.0	24.8
70°-80°	6461.8	18.5
80°-90°	801.3	2.3
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°	34873.4	100.0
0°-180°	34873.4	100.0



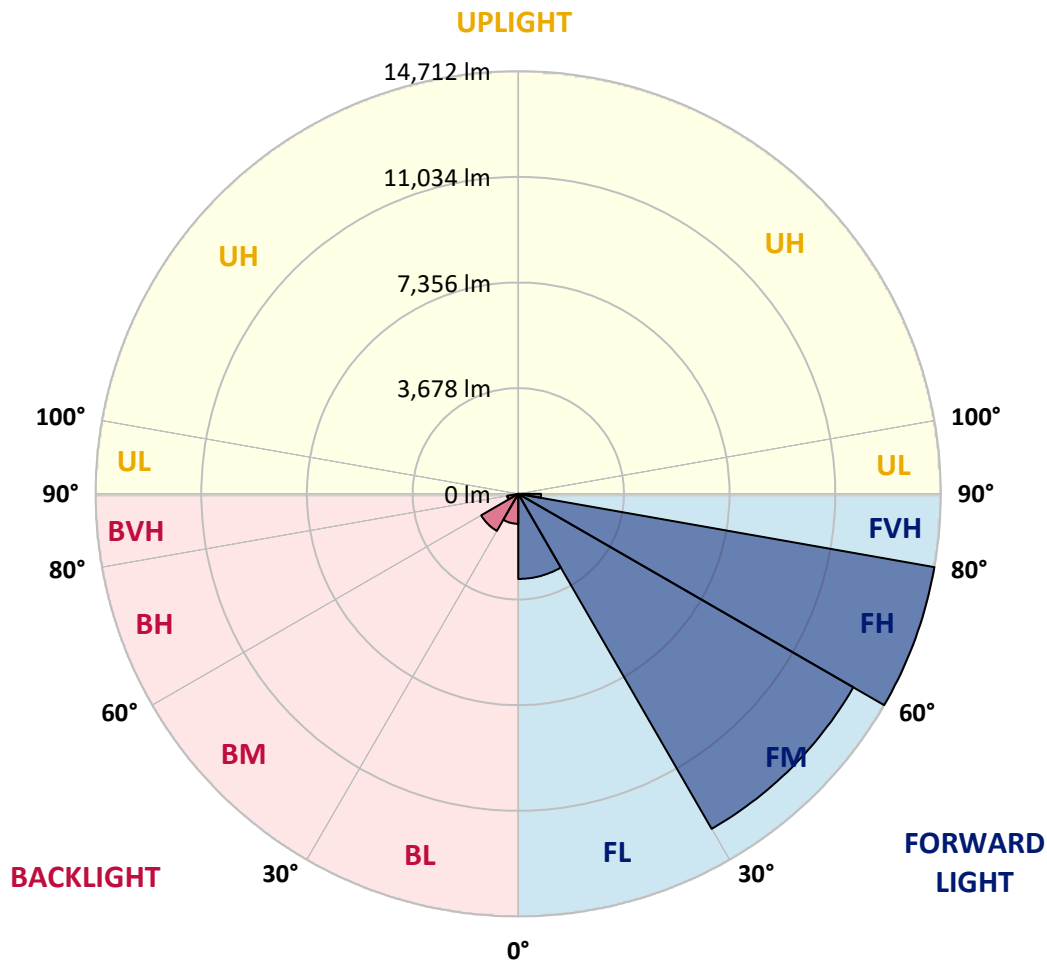
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.4	8.5			
FM (30°-60°)	13469.7	38.6			
FH (60°-80°)	14711.9	42.2			G5
FVH (80°-90°)	793.8	2.3			G5
BL (0°-30°)	1044.9	3.0	B3/2500		
BM (30°-60°)	1490.3	4.3	B2/2500		
BH (60°-80°)	392.0	1.1	B1/500		G1/500
BVH (80°-90°)	7.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1
2.5°	6807.0	6808.5	6792.6	6766.5	6733.2	6715.8	6686.8	6640.5	6591.3	6502.9	6407.3
5°	6946.1	6946.1	6925.8	6891.0	6837.5	6821.5	6766.5	6692.6	6591.3	6447.9	6287.1
7.5°	6931.6	6934.5	6907.0	6870.8	6817.2	6802.7	6736.1	6653.5	6527.5	6353.7	6148.0
10°	6856.3	6863.5	6841.8	6824.4	6775.1	6759.2	6697.0	6614.5	6488.4	6303.0	6067.0
12.5°	6779.5	6786.8	6794.1	6810.0	6779.5	6773.7	6724.5	6655.0	6534.8	6342.2	6075.6
15°	6730.2	6744.8	6796.9	6859.2	6866.4	6860.7	6828.8	6763.6	6641.9	6442.1	6138.0
17.5°	6730.2	6753.4	6862.1	6980.8	7022.8	7027.2	6999.6	6908.5	6763.6	6549.2	6195.8
20°	6786.8	6818.6	6988.1	7156.1	7225.6	7225.6	7172.0	7044.5	6875.1	6646.3	6234.9
22.5°	6931.6	6973.6	7186.5	7380.6	7454.4	7438.5	7366.1	7180.7	6991.0	6756.3	6284.2
25°	7216.9	7248.7	7470.4	7665.9	7710.8	7674.6	7583.4	7345.8	7138.7	6905.6	6374.0
27.5°	7584.8	7589.1	7817.9	7983.1	7955.5	7930.9	7816.5	7552.9	7351.6	7118.4	6528.9
30°	7988.9	7988.9	8190.2	8316.2	8232.2	8211.9	8097.5	7803.5	7623.9	7408.1	6749.2
32.5°	8379.9	8397.2	8560.9	8640.6	8546.5	8526.2	8414.7	8120.7	7986.0	7849.9	7092.3
35°	8757.9	8771.0	8925.9	8969.4	8879.6	8885.4	8805.7	8556.6	8505.9	8488.5	7609.4
37.5°	9124.3	9127.2	9285.1	9312.6	9267.7	9317.0	9324.2	9104.1	9198.2	9338.7	8337.9
40°	9458.9	9461.8	9618.2	9689.2	9766.0	9829.7	9886.1	9768.9	10080.2	10406.1	9205.5
42.5°	9726.8	9757.2	9955.6	10090.3	10293.1	10414.8	10568.3	10562.5	11130.2	11619.8	10254.0
45°	9962.9	10015.1	10291.6	10527.8	10875.4	11069.4	11309.8	11498.1	12312.1	12971.1	11315.6
47.5°	10274.3	10323.5	10639.3	11026.0	11489.4	11744.3	12142.6	12549.6	13611.2	14297.7	12352.6
50°	10713.2	10691.4	11002.8	11557.5	12152.8	12487.3	13055.1	13664.8	14900.2	15453.4	12962.4
52.5°	11180.9	11172.2	11402.5	12135.4	12934.8	13325.9	14076.1	14817.7	16132.7	16250.0	13241.9
55°	11760.2	11698.0	11892.0	12794.3	13863.2	14283.2	15166.7	15958.9	17114.7	16699.0	13382.3
57.5°	12367.1	12264.3	12449.7	13528.7	14910.4	15407.1	16374.6	17071.2	17767.9	17006.1	13380.9
60°	12994.3	12872.6	13092.7	14446.9	16210.9	16785.9	17683.8	17822.8	18377.6	17161.0	13282.5
62.5°	13518.5	13446.1	13773.4	15428.9	17663.5	18228.4	18673.1	18506.5	18891.7	17281.2	13052.2
65°	14073.2	14077.5	14606.2	16574.5	19207.5	19588.4	19626.0	19392.9	19321.9	17256.5	12273.0
67.5°	14823.4	14892.9	15775.0	18129.9	20709.3	21003.3	21000.4	20353.1	19636.2	16277.5	10545.1
70°	15617.1	15780.8	17121.9	19909.9	22348.9	22647.2	22493.7	20964.3	18489.1	13162.2	7463.1
72.5°	15483.8	15767.7	17870.6	21032.3	23526.3	23753.7	22755.8	19462.4	14613.5	7650.0	3177.6
75°	11945.6	12274.4	16386.1	19920.0	22290.9	22086.7	19552.2	15144.9	7986.0	2134.8	715.4
77.5°	6310.3	6485.5	10824.7	15175.4	17381.1	16953.9	13773.4	8401.6	2434.6	528.7	321.6
80°	3305.0	3345.6	4717.2	8610.2	10727.6	10730.5	8162.7	3690.3	1003.6	270.8	215.8
82.5°	1769.8	1804.6	2492.5	3978.5	5620.9	5095.2	3125.4	2030.5	583.7	153.5	207.1
85°	425.8	433.1	1413.5	1817.6	2210.1	1578.7	928.4	1704.6	157.9	89.8	168.0
87.5°	163.7	166.6	524.3	786.4	563.4	365.0	434.5	635.8	20.3	34.7	26.1
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°	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1	6413.1
2.5°	6349.3	6311.7	6219.0	6101.7	5997.4	5922.1	5809.1	5735.3	5686.1	5684.6	5665.8
5°	6188.6	6111.9	5912.0	5674.4	5458.7	5264.6	5035.8	4854.8	4720.1	4698.4	4652.0
7.5°	6016.3	5890.3	5583.2	5212.5	4850.4	4482.5	4055.3	3790.2	3562.8	3454.2	3442.6
10°	5910.6	5733.9	5297.9	4762.1	4194.3	3596.1	3037.1	2650.4	2370.9	2291.2	2231.8
12.5°	5888.8	5655.6	5077.8	4339.1	3528.1	2737.3	2118.9	1707.5	1484.5	1413.5	1394.7
15°	5910.6	5619.5	4892.4	3920.6	2853.1	1942.2	1422.2	1183.3	1099.2	1079.0	1077.5
17.5°	5923.6	5576.0	4682.4	3455.7	2198.5	1387.4	1089.2	1019.6	1006.5	1005.1	1008.0
20°	5922.1	5509.4	4431.8	2937.2	1635.1	1090.6	984.8	970.4	967.5	968.9	967.5
22.5°	5912.0	5431.1	4156.7	2402.7	1235.4	974.7	939.9	931.3	929.8	929.8	929.8
25°	5930.8	5368.9	3853.9	1891.5	1018.2	921.1	899.4	892.1	890.7	890.7	887.9
27.5°	5998.9	5334.1	3522.3	1455.5	919.7	873.3	855.9	854.5	850.1	848.7	851.6
30°	6109.0	5334.1	3158.8	1132.6	860.3	824.0	811.1	808.1	806.7	805.2	806.7
32.5°	6303.0	5374.7	2761.9	941.4	803.8	769.1	760.3	764.7	760.3	760.3	760.3
35°	6653.5	5496.3	2346.3	821.2	744.4	715.4	706.8	712.5	709.7	709.7	708.3
37.5°	7164.8	5722.2	1927.7	748.8	692.3	661.9	650.3	659.0	656.1	656.1	654.6
40°	7787.6	6051.1	1529.4	693.7	641.6	609.7	599.6	603.9	596.7	596.7	599.6
42.5°	8556.6	6468.1	1181.9	640.2	590.9	560.5	554.7	550.4	537.3	530.1	531.5
45°	9411.1	6902.7	921.1	588.0	543.1	518.5	509.8	498.2	476.5	462.0	463.4
47.5°	10174.4	7237.2	748.8	537.3	499.7	480.9	467.8	446.1	414.3	396.8	398.3
50°	10575.6	7287.9	637.3	486.6	459.2	440.2	421.4	388.2	350.4	331.6	330.2
52.5°	10678.3	7050.3	554.7	440.2	418.5	396.8	372.2	327.3	285.3	265.0	262.1
55°	10716.1	6688.3	480.9	396.8	375.1	350.4	318.6	267.9	228.8	208.6	207.1
57.5°	10591.5	6148.0	422.9	357.7	331.6	301.3	262.1	214.3	176.7	160.8	160.8
60°	10314.8	5416.7	378.0	315.7	286.7	252.0	211.5	166.6	131.8	118.8	118.8
62.5°	9763.1	4469.5	336.0	272.3	244.7	208.6	170.9	126.0	92.7	85.4	86.9
65°	8721.7	3390.5	294.0	233.2	208.6	172.3	133.2	89.8	62.3	62.3	65.2
67.5°	7112.6	2355.0	250.6	198.4	179.6	140.5	101.4	62.3	43.4	49.3	55.1
70°	4708.4	1320.8	214.3	163.7	153.5	111.5	75.3	42.0	34.7	46.4	56.5
72.5°	1777.1	514.1	179.6	131.8	133.2	85.4	53.6	31.9	31.9	50.7	66.6
75°	495.3	252.0	128.9	97.1	104.2	62.3	39.1	27.5	30.4	57.9	78.2
77.5°	291.1	185.4	84.0	56.5	71.0	43.4	26.1	21.7	26.1	49.3	75.3
80°	234.7	98.5	49.3	29.0	39.1	24.6	17.4	13.0	7.3	18.8	39.1
82.5°	234.7	59.3	23.2	20.3	20.3	13.0	8.7	5.8	1.5	0.0	10.2
85°	157.9	24.6	14.4	13.0	10.2	4.4	2.9	1.5	0.0	0.0	0.0
87.5°	26.1	10.2	5.8	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
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)