

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: P193636

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38135 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

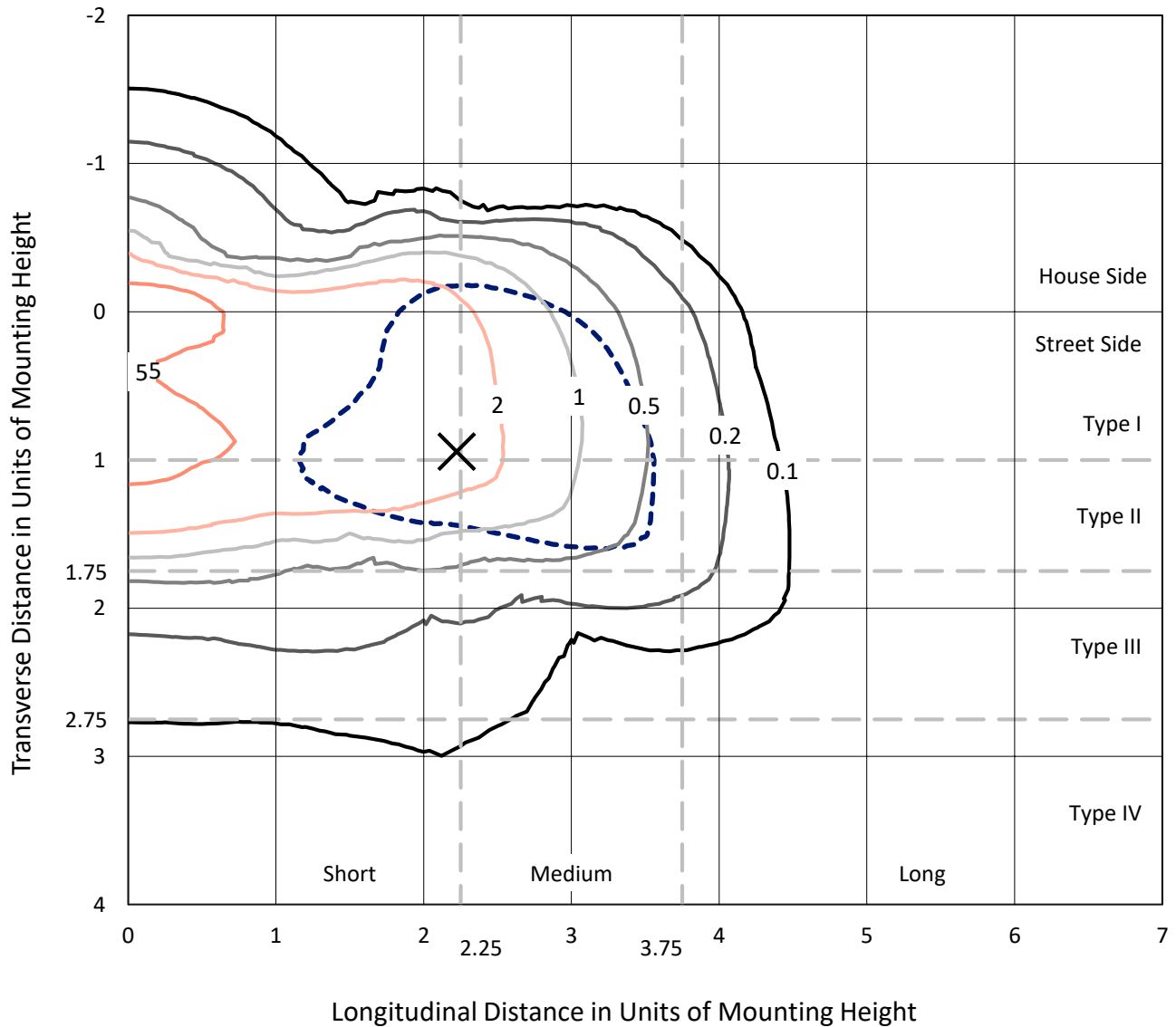
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

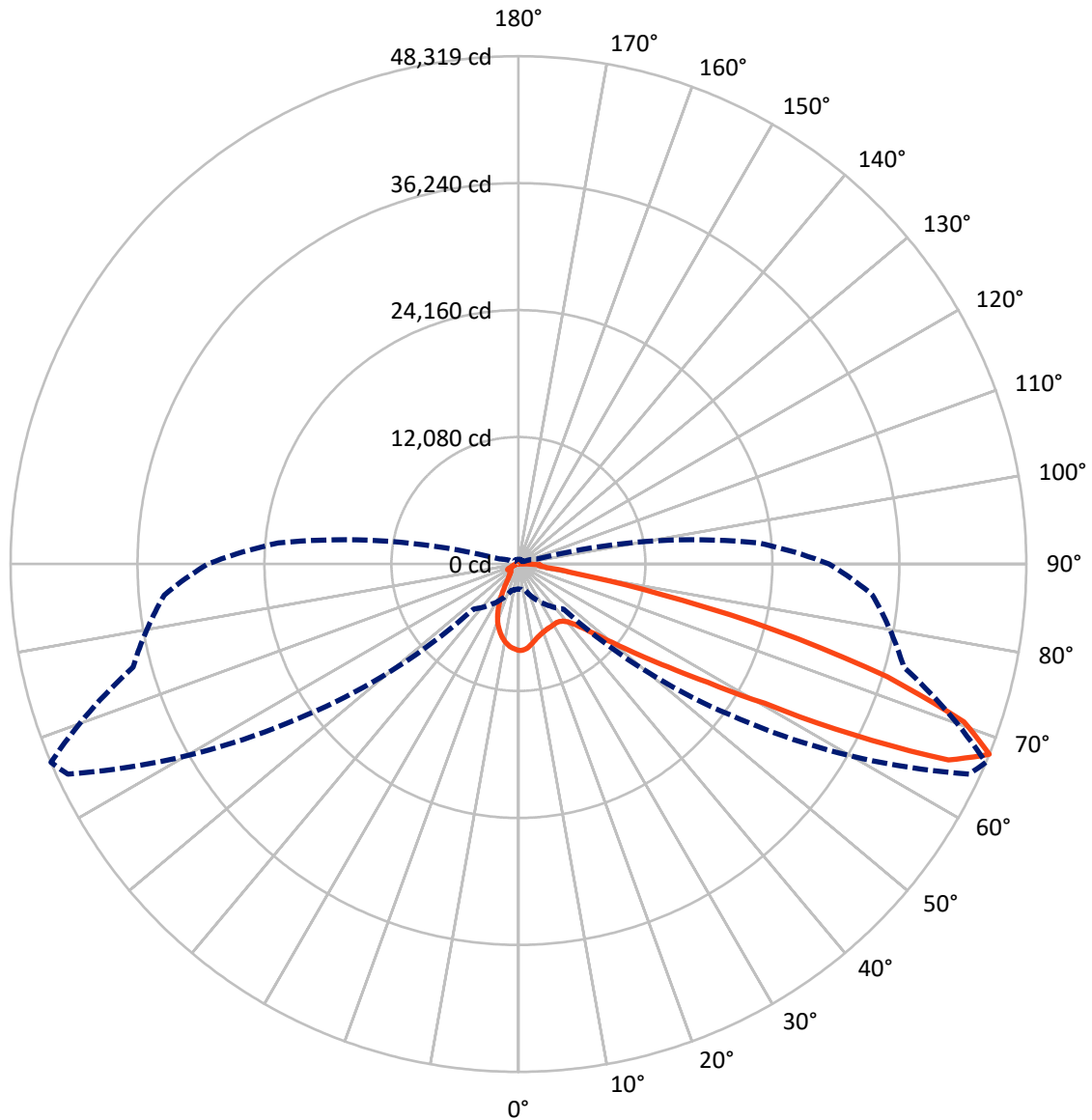
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6318.5	0.0	6318.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	31816.5	0.0	31816.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	38135.0	0.0	38135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.8	1.8
10°-20°	1623.8	4.3
20°-30°	2201.1	5.8
30°-40°	3129.0	8.2
40°-50°	5235.0	13.7
50°-60°	8281.8	21.7
60°-70°	10550.1	27.7
70°-80°	5526.1	14.5
80°-90°	886.3	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°	38135.0	100.0
0°-180°	38135.0	100.0



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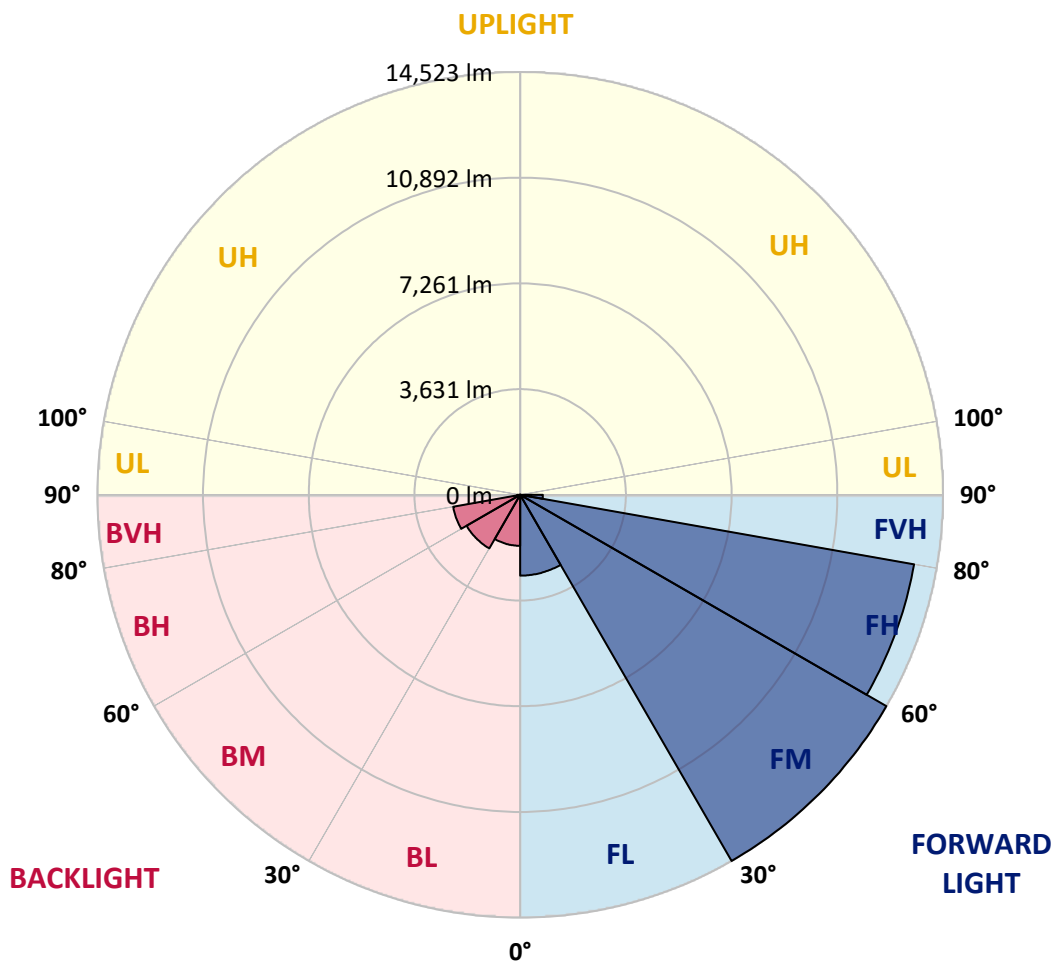
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.3	7.3			
FM (30°-60°)	14522.6	38.1			
FH (60°-80°)	13739.2	36.0			G5
FVH (80°-90°)	779.3	2.0			G5
BL (0°-30°)	1751.3	4.6	B3/2500		
BM (30°-60°)	2123.2	5.6	B2/2500		
BH (60°-80°)	2337.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	107.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6
2.5°	7887.1	7900.3	7941.7	7968.0	8086.5	8137.2	8173.0	8208.7	8214.3	8231.3	8214.3
5°	7059.7	7087.9	7165.0	7251.5	7480.9	7661.5	7851.4	8048.9	8084.6	8212.5	8248.2
7.5°	6418.4	6410.9	6474.8	6578.2	6813.3	7063.4	7396.3	7789.3	7866.4	8154.2	8293.3
10°	5950.1	5944.5	6012.2	6119.4	6343.2	6580.1	6956.2	7494.1	7603.2	8062.0	8336.6
12.5°	5604.1	5606.0	5673.7	5792.2	6019.7	6258.5	6640.3	7208.2	7347.4	7954.8	8381.7
15°	5374.7	5389.7	5444.3	5570.3	5792.2	6031.0	6405.2	6993.9	7149.9	7870.2	8432.5
17.5°	5297.6	5322.0	5340.8	5433.0	5622.9	5861.7	6228.5	6835.9	7001.4	7811.9	8477.6
20°	5369.0	5397.2	5361.5	5393.5	5513.8	5724.5	6089.3	6711.8	6881.0	7746.1	8483.3
22.5°	5675.6	5701.9	5596.6	5504.4	5496.9	5624.8	5974.6	6614.0	6788.9	7697.2	8485.1
25°	6215.3	6232.2	6055.4	5841.1	5632.3	5589.1	5893.7	6546.3	6732.5	7653.9	8449.4
27.5°	6877.3	6890.4	6687.3	6371.4	5952.0	5673.7	5865.5	6506.8	6700.5	7616.3	8389.2
30°	7682.1	7744.2	7471.5	7072.8	6461.6	5923.8	5921.9	6486.1	6664.8	7552.4	8270.8
32.5°	8505.8	8532.2	8344.1	7939.8	7148.1	6363.9	6079.9	6501.1	6655.3	7475.3	8120.3
35°	9340.8	9374.7	9252.4	8927.1	8086.5	7008.9	6388.3	6589.5	6713.6	7448.9	8015.0
37.5°	10422.1	10467.3	10298.0	9921.9	9228.0	7883.4	6901.7	6811.4	6892.3	7524.2	7983.0
40°	12131.6	12110.9	11616.3	11055.9	10476.7	9002.3	7635.1	7187.5	7234.6	7766.8	8080.8
42.5°	14121.2	14070.4	13218.5	12338.4	11849.5	10356.3	8605.5	7840.1	7830.7	8244.4	8425.0
45°	15708.4	15667.1	14899.8	13814.7	13423.5	11898.4	9859.8	8812.4	8742.8	9002.3	9060.6
47.5°	16567.8	16569.7	16127.8	15242.0	15232.6	13857.9	11471.5	10219.0	10098.7	10220.9	10158.9
50°	16267.0	16306.4	16259.4	15977.3	16883.8	16426.8	13575.9	12180.5	11937.9	12058.2	11819.4
52.5°	14811.4	14862.2	15140.5	15573.0	17577.7	19531.6	16667.5	14617.7	14335.6	14292.4	14027.2
55°	12231.2	12293.3	12861.2	14036.6	17000.4	21617.2	21545.7	17724.4	17274.9	16866.9	16754.0
57.5°	8430.6	8534.0	9448.0	11193.2	15133.0	22247.2	27354.8	22153.1	21239.2	19813.7	19840.0
60°	4752.2	4872.6	5950.1	7535.5	11364.3	21562.6	31774.2	28861.2	26931.7	23264.6	23460.1
62.5°	3022.1	3151.8	3969.9	5235.5	6819.0	17876.7	33585.2	38186.9	35736.5	27518.4	27710.2
65°	2446.6	2503.0	2888.6	4321.6	4951.5	10770.0	32210.5	45869.1	44955.1	32917.5	32022.4
67.5°	2388.3	2407.1	2606.5	3627.6	4748.4	6053.6	25692.4	47305.8	48319.4	37959.4	33818.3
70°	2360.1	2425.9	2937.5	3462.1	4547.2	5105.8	15439.5	43367.9	44968.3	39277.6	31428.1
72.5°	1145.3	1141.5	1478.1	3131.2	5122.7	5295.7	7932.3	35089.6	36695.6	34029.0	25825.9
75°	923.4	844.4	806.8	1147.1	4925.2	5468.7	5055.0	24144.7	25306.9	22815.1	15875.8
77.5°	876.3	782.3	716.5	718.4	2081.8	5799.7	4282.1	13363.4	13701.9	10305.5	4349.8
80°	725.9	639.4	592.4	667.6	1008.0	5523.2	4630.0	6047.9	5549.6	2531.3	1448.0
82.5°	504.0	458.9	445.7	560.4	806.8	3936.0	5384.1	3249.6	2725.0	1267.5	893.3
85°	321.6	274.6	304.7	408.1	628.1	1816.6	5545.8	2533.1	2014.1	804.9	504.0
87.5°	148.6	120.4	150.4	225.7	410.0	626.2	5276.9	2845.3	2074.3	425.0	317.8
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°	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6	8225.6
2.5°	8229.4	8193.7	8165.4	8112.8	8054.5	7998.1	7947.3	7883.4	7864.6	7847.6	7874.0
5°	8255.7	8220.0	8116.6	7954.8	7776.2	7608.8	7441.4	7298.5	7210.1	7161.2	7189.4
7.5°	8295.2	8244.4	8030.0	7732.9	7411.3	7118.0	6815.2	6572.6	6393.9	6309.3	6333.8
10°	8330.9	8233.1	7883.4	7437.7	6967.5	6531.2	6053.6	5658.6	5365.3	5211.1	5248.7
12.5°	8346.0	8189.9	7678.4	7069.1	6424.0	5784.6	5081.3	4490.8	4069.6	3915.4	3883.4
15°	8361.0	8141.0	7452.7	6649.7	5767.7	4863.2	3877.7	3170.6	2820.9	2743.8	2726.8
17.5°	8364.8	8056.4	7197.0	6194.6	4998.6	3766.8	2651.6	2202.2	2204.0	2328.1	2343.2
20°	8325.3	7930.4	6886.7	5628.6	4077.1	2604.6	1820.4	1743.3	2027.3	2337.6	2375.2
22.5°	8235.0	7763.0	6535.0	4968.5	3022.1	1715.1	1408.5	1493.2	1859.9	2239.8	2283.0
25°	8120.3	7559.9	6119.4	4203.1	2000.9	1226.1	1181.0	1284.4	1532.7	1786.5	1811.0
27.5°	7964.2	7319.2	5653.0	3326.7	1299.5	1009.9	1040.0	1109.5	1211.1	1323.9	1335.2
30°	7763.0	7031.5	5154.7	2425.9	981.7	908.3	951.6	989.2	1032.4	1096.4	1102.0
32.5°	7531.7	6755.0	4643.1	1675.6	870.7	855.7	889.5	908.3	942.2	981.7	985.4
35°	7338.0	6491.7	4112.8	1184.8	823.7	816.2	838.7	846.3	878.2	921.5	925.2
37.5°	7227.0	6277.4	3565.6	955.3	791.7	780.4	793.6	793.6	838.7	902.7	912.1
40°	7234.6	6158.9	3018.3	863.2	765.4	750.3	752.2	752.2	810.5	880.1	885.7
42.5°	7439.5	6189.0	2533.1	827.5	744.7	727.8	718.4	724.0	772.9	818.0	821.8
45°	7921.0	6401.5	2078.0	804.9	724.0	718.4	697.7	695.8	714.6	735.3	735.3
47.5°	8710.8	6820.8	1769.6	789.8	707.1	705.2	680.8	656.3	654.4	662.0	662.0
50°	9995.2	7543.0	1562.8	772.9	695.8	680.8	652.6	614.9	601.8	607.4	607.4
52.5°	11921.0	8831.2	1483.8	750.3	671.4	646.9	614.9	577.3	566.1	567.9	567.9
55°	14446.6	10809.5	1472.5	724.0	645.0	605.5	579.2	551.0	537.8	541.6	541.6
57.5°	17532.6	13545.8	1673.7	682.6	609.3	564.2	549.1	530.3	520.9	526.6	524.7
60°	21284.3	17126.4	2482.4	639.4	573.6	526.6	526.6	511.5	504.0	509.6	507.8
62.5°	25605.9	21239.2	3490.3	607.4	536.0	496.5	504.0	496.5	488.9	492.7	490.8
65°	29438.5	23919.0	3268.4	583.0	498.4	468.3	481.4	477.7	472.0	475.8	473.9
67.5°	29549.4	22926.1	1835.4	556.6	462.6	440.1	458.9	457.0	453.2	457.0	455.1
70°	26371.3	19358.6	1034.3	507.8	425.0	406.2	432.5	430.7	426.9	434.4	432.5
72.5°	21128.2	14047.9	756.0	447.6	387.4	370.5	400.6	398.7	398.7	410.0	404.3
75°	12157.9	7228.9	603.7	383.6	347.9	334.7	361.1	363.0	366.7	381.8	370.5
77.5°	3465.9	2252.9	492.7	325.3	299.0	293.4	319.7	323.5	325.3	342.3	327.2
80°	1288.2	1038.1	406.2	272.7	244.5	246.4	270.8	276.4	278.3	295.2	276.4
82.5°	821.8	684.5	329.1	210.6	191.8	189.9	220.0	227.5	227.5	229.4	218.1
85°	479.5	410.0	248.2	152.3	135.4	129.8	163.6	176.8	171.1	167.4	159.8
87.5°	321.6	282.1	152.3	84.6	73.3	69.6	95.9	105.3	101.6	95.9	90.3
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)