

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: P193705

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27760 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

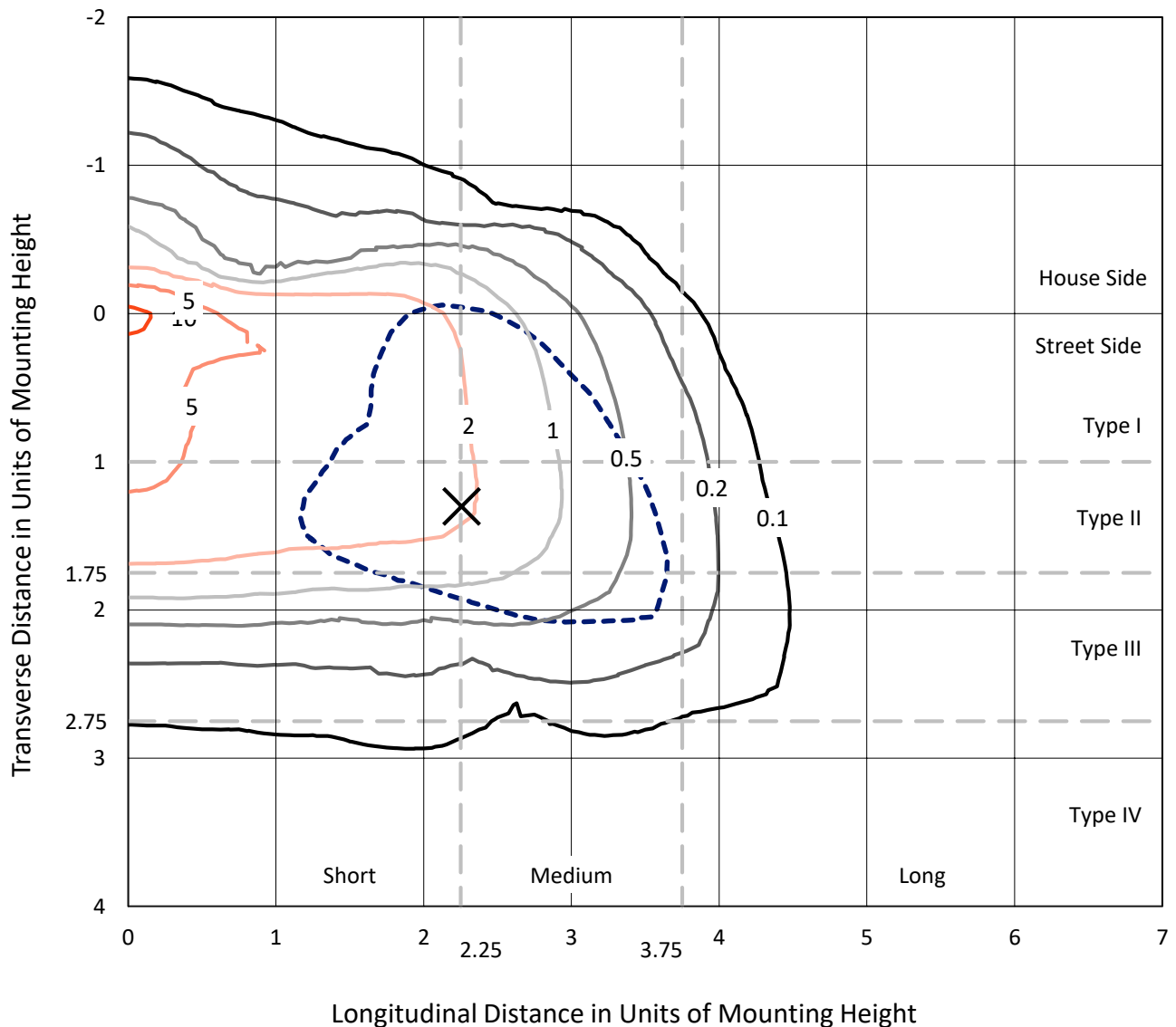
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

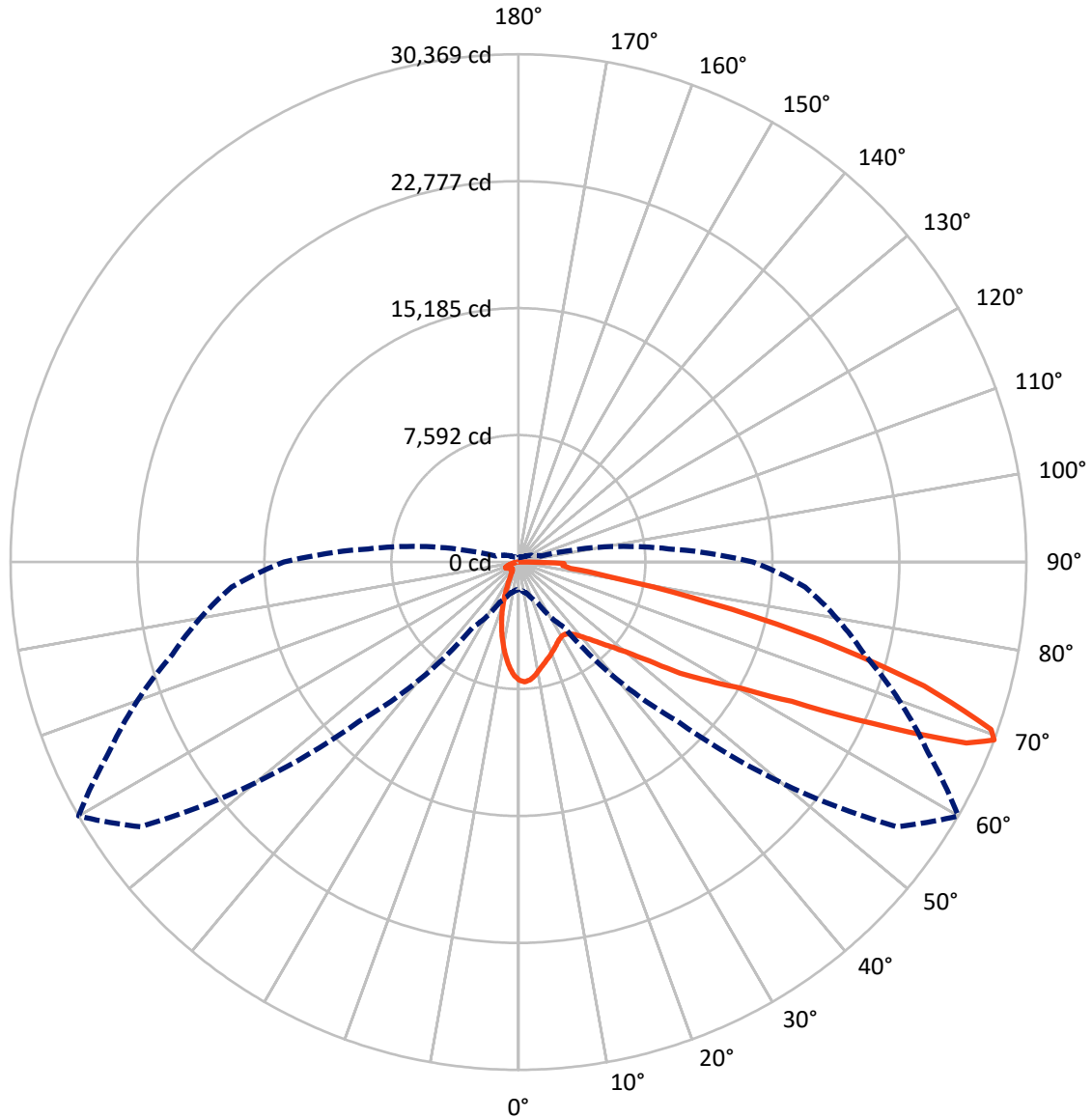
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3949.4	0.0	3949.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	23810.6	0.0	23810.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	27760.0	0.0	27760.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.1	2.2
10°-20°	1274.3	4.6
20°-30°	1623.7	5.8
30°-40°	2232.2	8.0
40°-50°	3621.9	13.0
50°-60°	5808.6	20.9
60°-70°	7730.8	27.8
70°-80°	4174.0	15.0
80°-90°	696.5	2.5
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°	27760.0	100.0
0°-180°	27760.0	100.0



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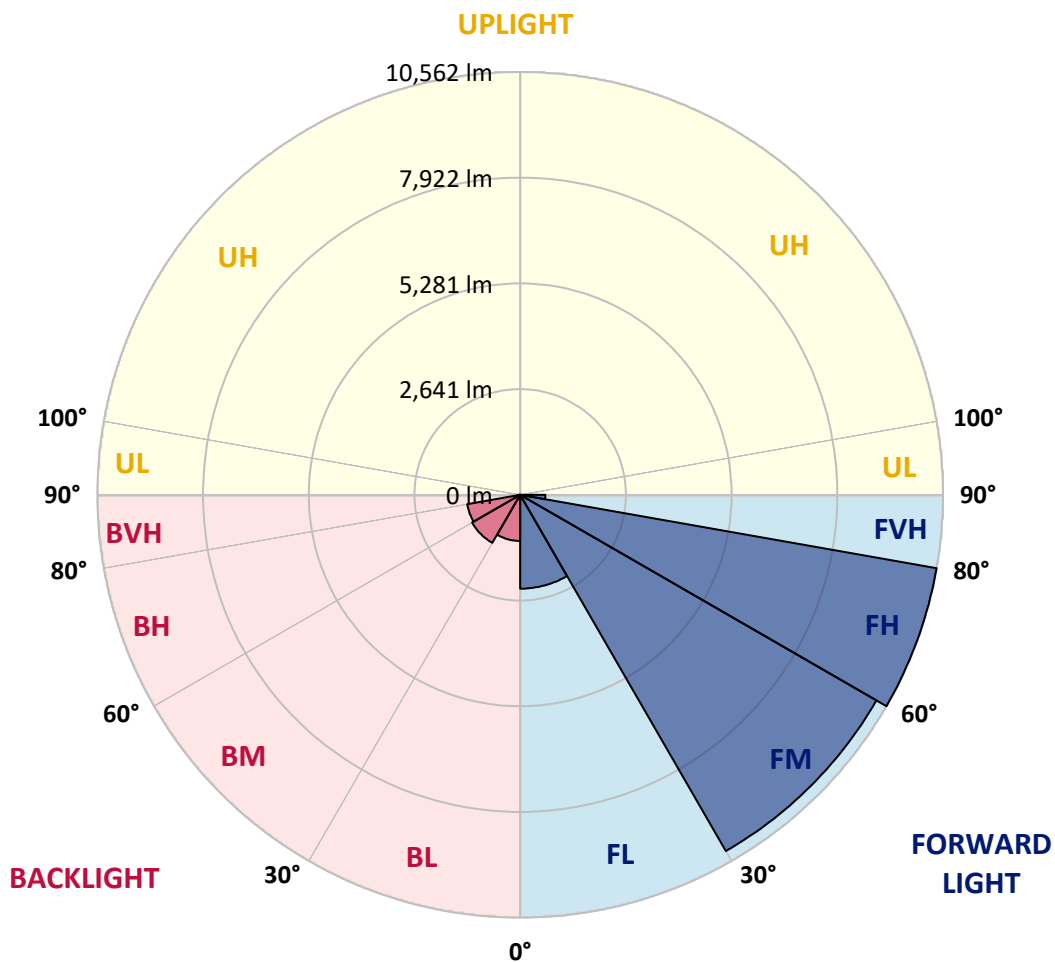
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2343.9	8.4			
FM	(30°-60°)	10275.1	37.0			
FH	(60°-80°)	10562.1	38.0			G4/12000
FVH	(80°-90°)	629.4	2.3			G4/750
BL	(0°-30°)	1152.2	4.2	B3/2500		
BM	(30°-60°)	1387.5	5.0	B2/2500		
BH	(60°-80°)	1342.7	4.8	B3/2500		G3/2500
BVH	(80°-90°)	67.1	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7
2.5°	7218.5	7234.6	7227.9	7223.9	7235.9	7217.2	7178.3	7166.2	7147.4	7103.2	7028.1
5°	6947.6	6995.9	6993.2	7029.4	7089.8	7105.9	7088.4	7091.1	7056.2	7001.3	6876.5
7.5°	6479.6	6499.7	6510.5	6589.6	6699.5	6788.0	6863.1	6887.3	6871.2	6824.2	6663.3
10°	5996.9	6013.0	6038.4	6131.0	6270.4	6392.5	6534.6	6616.4	6651.3	6643.2	6463.5
12.5°	5582.5	5598.6	5632.1	5736.7	5903.0	6053.2	6259.7	6361.6	6444.7	6494.4	6301.3
15°	5211.0	5245.9	5278.1	5398.8	5585.2	5782.3	6015.6	6144.4	6273.1	6384.4	6157.8
17.5°	4921.4	4956.3	4975.0	5085.0	5283.5	5524.8	5798.4	5949.9	6110.8	6293.2	6015.6
20°	4753.8	4769.9	4761.8	4823.5	5001.9	5258.0	5582.5	5758.2	5952.6	6207.4	5873.5
22.5°	4706.8	4708.2	4678.7	4672.0	4787.3	5003.2	5351.9	5565.1	5803.8	6151.1	5751.5
25°	4820.8	4816.8	4736.3	4670.6	4682.7	4808.8	5129.2	5377.3	5679.1	6139.0	5657.6
27.5°	5074.3	5086.3	4967.0	4843.6	4721.6	4717.6	4960.3	5221.8	5577.1	6194.0	5617.4
30°	5429.6	5449.7	5322.3	5165.5	4936.1	4747.1	4894.6	5129.2	5514.1	6308.0	5610.7
32.5°	5818.5	5840.0	5743.4	5578.5	5278.1	4929.4	4940.2	5137.3	5511.4	6467.5	5656.3
35°	6232.9	6257.0	6207.4	6067.9	5734.0	5266.0	5114.5	5267.4	5598.6	6711.6	5778.3
37.5°	6695.5	6733.1	6746.5	6613.7	6257.0	5709.9	5400.1	5514.1	5795.7	7050.9	6002.2
40°	7362.0	7414.3	7410.3	7219.8	6856.4	6309.3	5841.3	5870.8	6102.8	7504.1	6360.3
42.5°	8638.6	8649.3	8315.4	7901.1	7516.2	6939.6	6361.6	6337.5	6526.5	8078.1	6887.3
45°	10262.5	10218.3	9475.4	8674.8	8205.5	7663.7	7038.8	6920.8	7064.3	8778.1	7547.0
47.5°	11610.2	11508.3	10569.6	9464.6	8934.9	8450.9	7834.0	7627.5	7706.6	9571.9	8399.9
50°	12078.2	12001.8	11224.0	10121.7	9625.6	9411.0	8812.9	8520.6	8542.0	10518.6	9398.9
52.5°	11977.6	11966.9	11447.9	10554.9	10271.9	10419.4	10199.5	9803.9	9594.7	11570.0	10477.1
55°	11740.3	11763.1	11575.3	11059.1	11010.8	11393.0	12011.2	11718.8	11068.4	12630.7	11591.4
57.5°	10915.6	10974.6	11387.6	11693.3	12200.2	12768.8	13470.1	13387.0	12654.8	13777.2	12916.3
60°	8794.1	8930.9	10038.6	11570.0	13424.6	15202.7	15516.5	15323.4	14290.8	15200.0	14666.3
62.5°	6161.8	6303.9	7620.8	10017.1	13223.4	17951.7	19174.7	18341.9	16640.2	17296.0	16931.2
65°	3298.8	3367.2	4372.9	6950.3	11163.7	18518.9	24521.2	23253.9	20360.1	19880.0	18868.9
67.5°	1819.7	1857.3	2242.1	3509.3	7150.1	16307.7	27927.2	28884.7	25009.3	21600.5	18516.3
69°	1645.4	1680.2	1932.4	2657.8	4784.6	13483.6	27594.7	30369.2	27047.6	21430.2	17212.8
70°	1609.2	1641.4	1868.0	2450.0	3872.8	11114.0	26480.3	29989.7	27533.0	20820.1	16075.7
72.5°	1448.3	1483.1	1703.0	2200.5	3309.5	5540.9	20975.6	25356.6	24997.2	18052.3	12193.5
75°	1350.4	1382.6	1755.3	2155.0	3168.7	3506.7	13828.2	18687.9	18375.4	12628.0	6574.8
77.5°	578.0	575.3	814.0	1823.7	3215.7	3395.4	7430.4	11674.6	10651.4	5397.4	1888.1
80°	386.2	379.5	386.2	536.4	2948.8	3414.1	3892.9	5925.8	4476.2	1375.8	930.6
82.5°	332.6	327.2	339.3	327.2	1036.6	3896.9	3309.5	3151.3	2128.1	781.8	461.3
85°	223.9	214.6	292.3	293.7	489.5	3462.4	3727.9	2661.8	1721.8	464.0	228.0
87.5°	107.3	104.6	170.3	207.9	287.0	1406.7	4182.5	2727.6	1736.6	237.4	108.6
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°	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7	7073.7
2.5°	7005.3	6950.3	6896.7	6832.3	6765.2	6690.1	6652.6	6615.1	6605.7	6594.9	6557.4
5°	6812.2	6734.4	6600.3	6452.8	6297.2	6145.7	6030.4	5958.0	5903.0	5874.8	5825.2
7.5°	6562.8	6448.8	6214.1	5959.3	5697.8	5459.1	5252.6	5122.5	4999.2	4941.5	4875.8
10°	6325.4	6155.1	5790.4	5414.9	5039.4	4678.7	4339.4	4099.4	3886.2	3766.8	3682.3
12.5°	6121.6	5888.2	5382.7	4874.5	4359.5	3845.9	3337.7	2938.1	2604.2	2428.5	2338.7
15°	5923.1	5641.5	4995.2	4350.1	3689.0	2990.4	2322.6	1869.3	1593.1	1483.1	1445.6
17.5°	5743.4	5382.7	4606.3	3821.8	2997.1	2152.3	1560.9	1311.5	1205.5	1169.3	1157.3
20°	5549.0	5121.2	4202.6	3269.3	2275.6	1504.6	1219.0	1109.0	1066.1	1055.4	1050.0
22.5°	5361.2	4863.7	3816.4	2677.9	1634.7	1161.3	1047.3	1001.7	995.0	1004.4	1004.4
25°	5201.7	4633.1	3399.4	2059.7	1200.2	977.6	937.3	926.6	952.1	987.0	993.7
27.5°	5082.3	4444.0	2955.5	1520.7	956.1	850.2	848.8	866.3	929.3	996.3	1009.8
30°	5000.5	4264.3	2480.8	1096.9	801.9	748.3	769.7	807.3	899.8	995.0	1020.5
32.5°	4958.9	4131.6	1986.0	848.8	686.6	657.1	693.3	738.9	830.1	918.6	952.1
35°	4991.1	4033.7	1519.3	708.0	606.1	583.3	620.9	665.1	718.8	756.3	781.8
37.5°	5111.8	3994.8	1146.5	634.3	551.1	529.7	559.2	584.7	606.1	616.9	628.9
40°	5372.0	4036.3	918.6	596.7	520.3	493.5	505.5	514.9	528.3	539.1	544.4
42.5°	5755.5	4161.1	823.4	582.0	504.2	465.3	462.6	466.7	484.1	504.2	508.2
45°	6291.9	4381.0	816.7	591.4	496.2	442.5	430.5	435.8	462.6	493.5	498.8
47.5°	6977.1	4716.2	870.3	619.5	502.9	430.5	410.3	417.0	450.6	492.1	498.8
50°	7807.2	5184.2	960.1	661.1	532.4	433.1	403.6	407.7	442.5	488.1	494.8
52.5°	8787.4	5848.0	1058.0	701.3	563.2	450.6	409.0	399.6	431.8	472.0	480.1
55°	9877.7	6699.5	1158.6	737.5	579.3	472.0	419.7	388.9	411.7	445.2	451.9
57.5°	11216.0	7890.3	1332.9	772.4	590.0	486.8	430.5	378.2	386.2	410.3	415.7
60°	13027.6	9574.6	1640.0	830.1	614.2	492.1	429.1	368.8	360.7	374.1	376.8
62.5°	15198.7	11403.7	1896.1	902.5	654.4	496.2	421.1	362.1	339.3	339.3	341.9
65°	16487.3	11893.2	1754.0	962.8	687.9	492.1	411.7	355.4	323.2	308.4	309.8
67.5°	15394.5	10459.6	1503.2	974.9	686.6	473.4	396.9	343.3	307.1	284.3	282.9
69°	14025.3	9024.8	1390.6	942.7	654.4	449.2	378.2	329.9	295.0	270.9	269.5
70°	12921.7	8149.1	1316.8	907.8	619.5	431.8	363.4	317.8	285.6	262.8	260.2
72.5°	9394.9	5339.8	1125.1	780.5	510.9	362.1	313.8	278.9	254.8	241.4	238.7
75°	4694.8	2546.5	913.2	632.9	391.6	289.7	257.5	233.3	221.3	218.6	217.2
77.5°	1542.1	1166.7	653.1	472.0	291.0	226.6	207.9	190.4	187.7	195.8	193.1
80°	847.5	678.5	414.4	312.4	198.5	166.3	163.6	154.2	158.2	171.6	169.0
82.5°	431.8	352.7	256.1	187.7	134.1	119.3	130.1	124.7	130.1	142.1	140.8
85°	213.2	193.1	162.3	114.0	88.5	76.4	92.5	96.6	99.2	108.6	108.6
87.5°	123.4	114.0	85.8	53.6	44.3	40.2	53.6	52.3	61.7	67.0	65.7
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)