

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: P269470

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269470
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-07-LED-E1-SL2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 39309.3 lumens
Efficiency: N/A
Efficacy: 87.7 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): 448
Input Voltage (V): NR
Input Current (A_{in}): 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

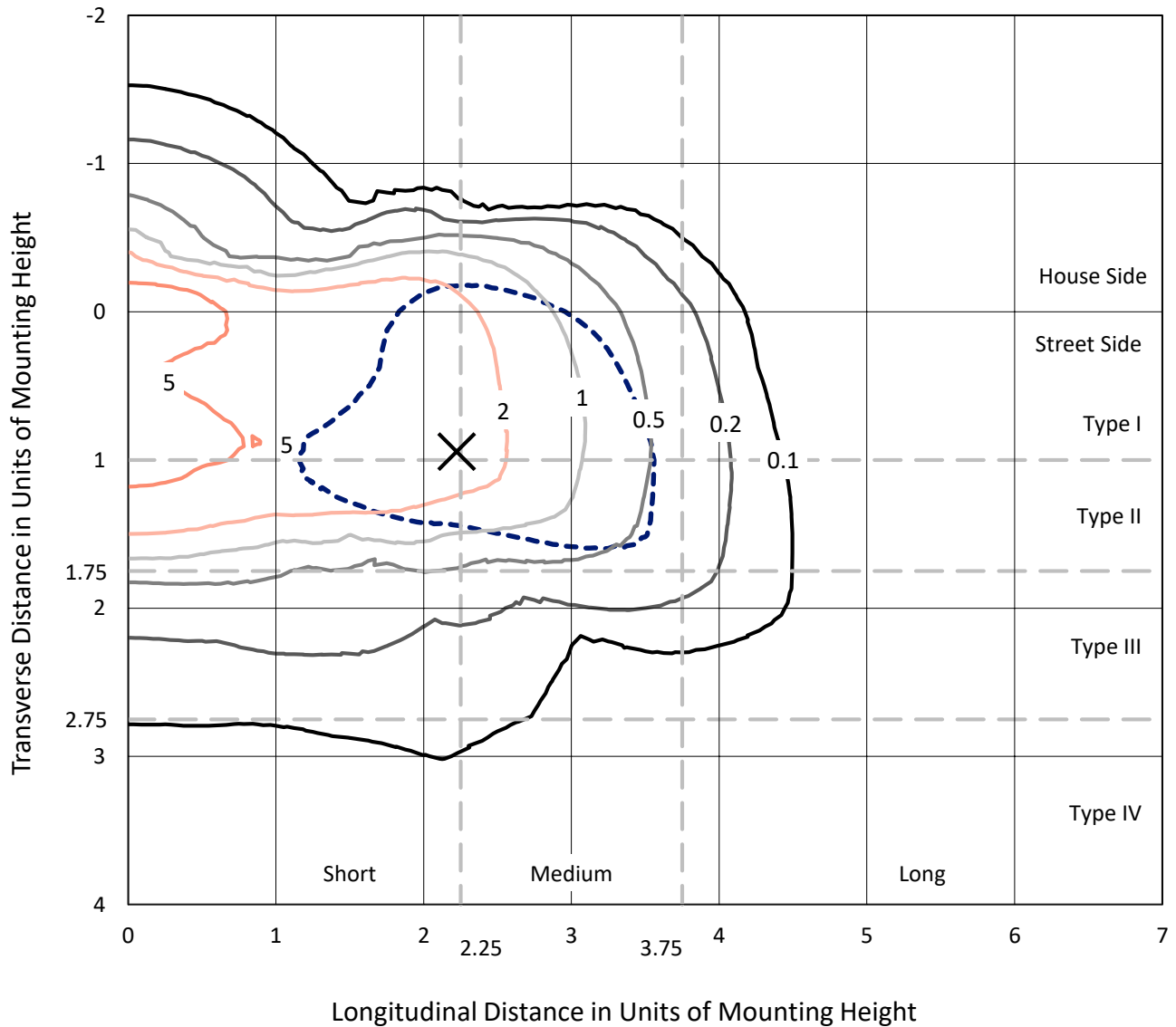


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

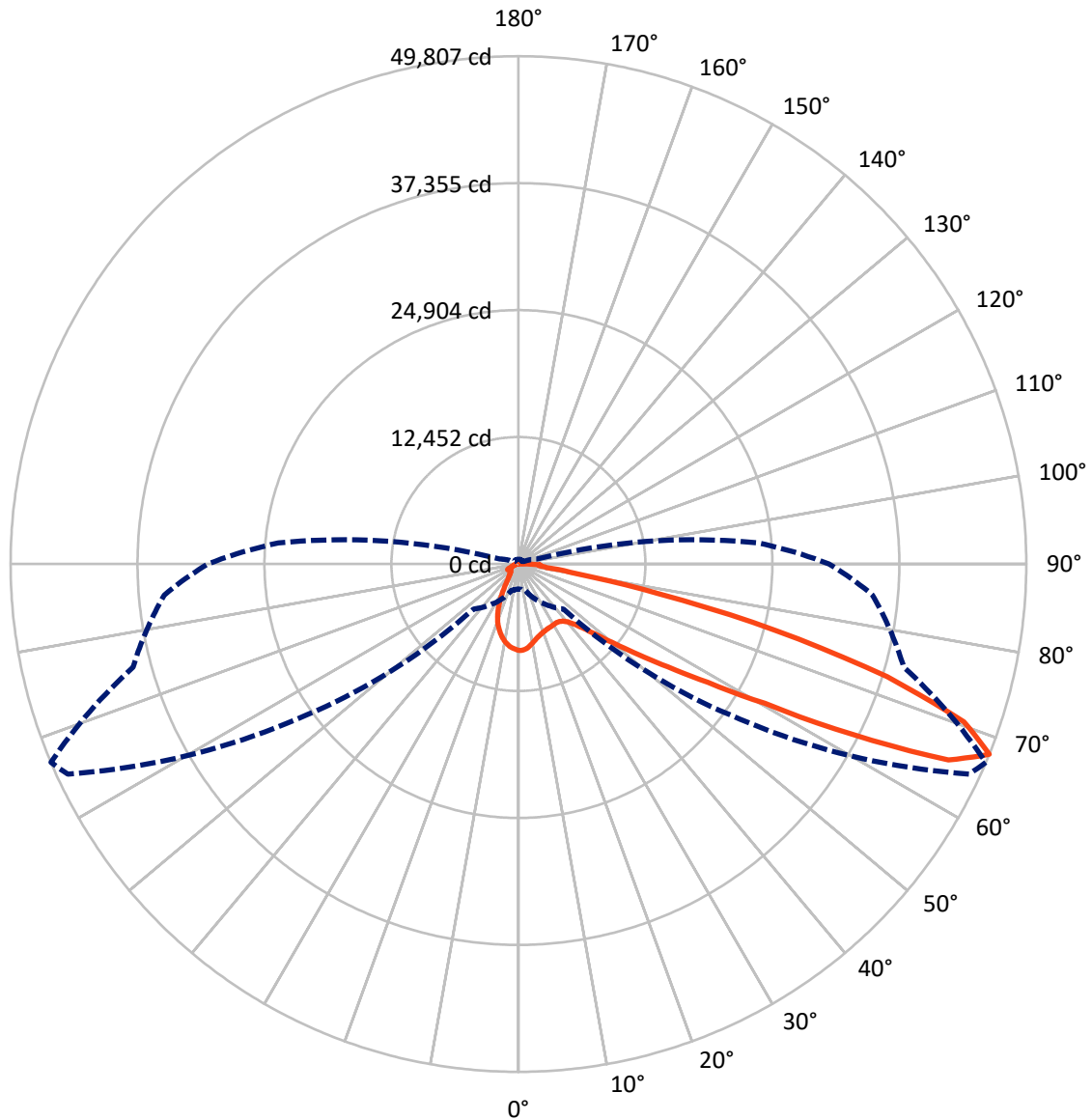


Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Semi-Cutoff

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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	6513.1	0.0	6513.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	32796.2	0.0	32796.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	39309.3	0.0	39309.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.4	1.8
10°-20°	1673.8	4.3
20°-30°	2268.8	5.8
30°-40°	3225.4	8.2
40°-50°	5396.2	13.7
50°-60°	8536.8	21.7
60°-70°	10875.0	27.7
70°-80°	5696.3	14.5
80°-90°	913.6	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°	39309.3	100.0
0°-180°	39309.3	100.0

Coefficient of Utilization



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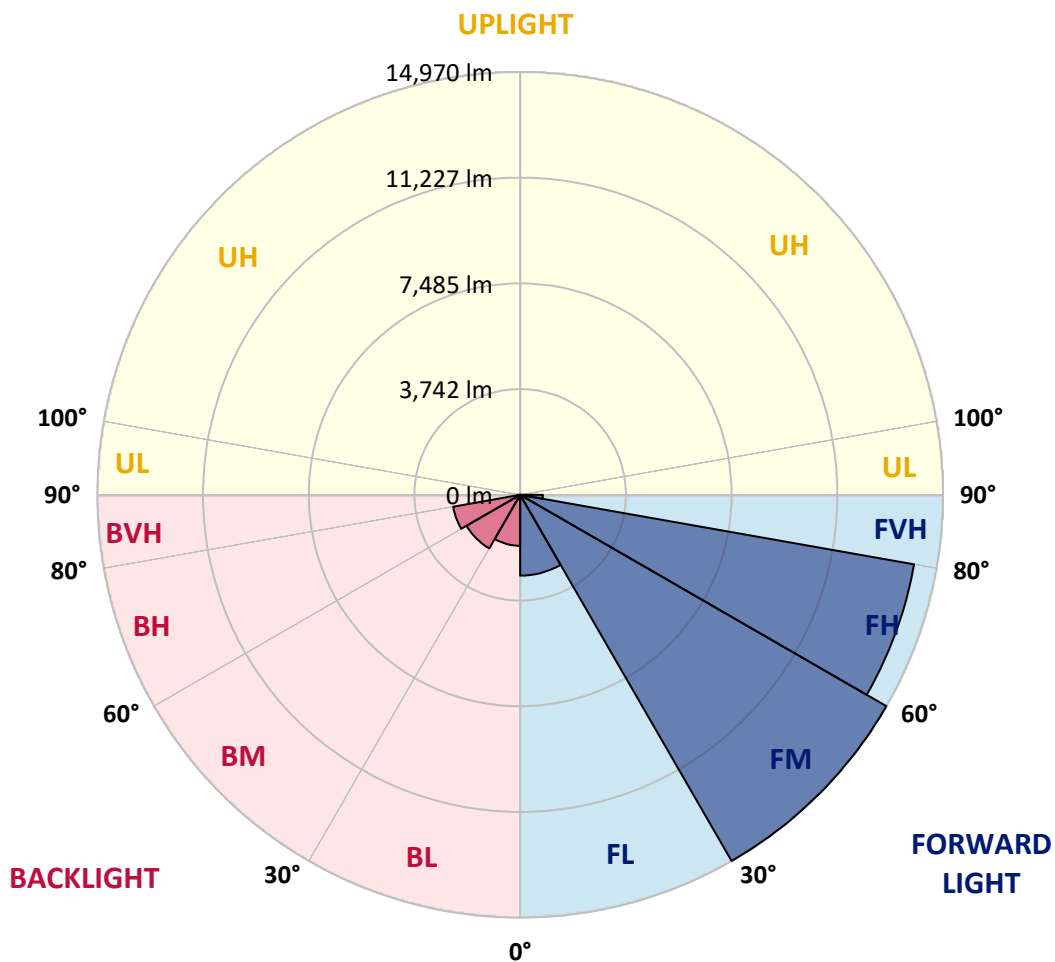
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2860.8	7.3			
FM (30°-60°)	14969.8	38.1			
FH (60°-80°)	14162.3	36.0			G5
FVH (80°-90°)	803.3	2.0			G5
BL (0°-30°)	1805.3	4.6	B3/2500		
BM (30°-60°)	2188.6	5.6	B2/2500		
BH (60°-80°)	2409.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	110.3	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°	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9
2.5°	8130.0	8143.6	8186.3	8213.4	8335.5	8387.8	8424.7	8461.5	8467.3	8484.8	8467.3
5°	7277.1	7306.2	7385.7	7474.7	7711.3	7897.4	8093.2	8296.7	8333.5	8465.4	8502.2
7.5°	6616.0	6608.3	6674.1	6780.9	7023.0	7280.9	7624.0	8029.2	8108.7	8405.4	8548.7
10°	6133.4	6127.6	6197.3	6307.8	6538.6	6782.7	7170.5	7724.9	7837.4	8310.3	8593.2
12.5°	5776.7	5778.5	5848.3	5970.6	6205.1	6451.3	6844.7	7430.2	7573.7	8199.8	8639.8
15°	5540.1	5555.7	5611.9	5741.7	5970.6	6216.7	6602.5	7209.2	7370.1	8112.6	8692.2
17.5°	5460.6	5485.9	5505.4	5600.3	5796.0	6042.3	6420.2	7046.3	7217.0	8052.4	8738.7
20°	5534.4	5563.5	5526.6	5559.6	5683.7	5900.7	6276.7	6918.4	7092.8	7984.7	8744.6
22.5°	5850.3	5877.5	5768.9	5674.0	5666.1	5798.0	6158.6	6817.6	6997.9	7934.2	8746.4
25°	6406.7	6424.0	6242.0	6020.9	5805.7	5761.2	6075.1	6747.9	6939.8	7889.6	8709.5
27.5°	7089.1	7102.5	6893.2	6567.6	6135.3	5848.3	6046.1	6707.1	6906.8	7850.8	8647.5
30°	7918.6	7982.7	7701.6	7290.6	6660.7	6106.1	6104.3	6685.8	6870.0	7784.9	8525.5
32.5°	8767.7	8794.9	8601.0	8184.3	7368.2	6559.9	6267.1	6701.4	6860.3	7705.5	8370.3
35°	9628.5	9663.3	9537.3	9202.0	8335.5	7224.7	6585.0	6792.4	6920.5	7678.4	8261.8
37.5°	10743.1	10789.6	10615.1	10227.5	9512.2	8126.1	7114.2	7021.2	7104.5	7755.8	8228.8
40°	12505.1	12483.8	11974.0	11396.3	10799.2	9279.5	7870.2	7409.0	7457.3	8006.0	8329.7
42.5°	14556.0	14503.8	13625.6	12718.5	12214.3	10675.2	8870.6	8081.5	8071.8	8498.3	8684.5
45°	16192.2	16149.5	15358.6	14240.1	13837.0	12264.7	10163.5	9083.8	9011.9	9279.5	9339.6
47.5°	17078.0	17080.0	16624.5	15711.4	15701.7	14284.7	11824.7	10533.7	10409.6	10535.6	10471.7
50°	16767.9	16808.5	16760.0	16469.3	17403.8	16932.6	13993.8	12555.5	12305.5	12429.6	12183.4
52.5°	15267.6	15319.9	15606.8	16052.6	18119.1	20133.1	17180.8	15067.8	14777.1	14732.5	14459.2
55°	12607.9	12671.9	13257.2	14468.8	17523.9	22282.8	22209.2	18270.2	17806.9	17386.2	17269.9
57.5°	8690.3	8796.8	9739.0	11537.8	15599.0	22932.2	28197.2	22835.4	21893.2	20423.9	20451.1
60°	4898.5	5022.7	6133.4	7767.6	11714.3	22226.7	32752.7	29749.9	27761.0	23981.0	24182.6
62.5°	3115.1	3248.9	4092.0	5396.7	7029.0	18427.2	34619.4	39362.8	36836.9	28365.8	28563.5
65°	2522.0	2580.1	2977.5	4454.6	5104.0	11101.8	33202.3	47281.5	46339.4	33931.1	33008.5
67.5°	2461.8	2481.3	2686.7	3739.4	4894.7	6239.9	26483.6	48762.5	49807.3	39128.3	34859.7
70°	2432.8	2500.6	3027.8	3568.7	4687.3	5263.0	15914.9	44703.3	46353.0	40487.1	32395.9
72.5°	1180.6	1176.7	1523.6	3227.6	5280.4	5458.8	8176.6	36170.2	37825.7	35076.8	26621.2
75°	951.8	870.4	831.7	1182.4	5077.0	5637.1	5210.7	24888.3	26086.2	23517.6	16364.7
77.5°	903.3	806.4	738.5	740.6	2146.0	5978.3	4413.9	13774.9	14123.8	10622.8	4483.7
80°	748.3	659.0	610.6	688.1	1039.0	5693.3	4772.5	6234.1	5720.4	2609.1	1492.7
82.5°	519.5	473.0	459.5	577.7	831.7	4057.3	5549.9	3349.7	2808.9	1306.6	920.9
85°	331.5	283.1	314.0	420.6	647.5	1872.5	5716.5	2611.2	2076.2	829.7	519.5
87.5°	153.2	124.1	155.0	232.7	422.7	645.5	5439.3	2933.0	2138.1	438.2	327.6
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°	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9	8478.9
2.5°	8482.9	8446.0	8416.8	8362.6	8302.6	8244.4	8192.1	8126.1	8106.8	8089.2	8116.5
5°	8510.0	8473.2	8366.5	8199.8	8015.7	7843.1	7670.5	7523.2	7432.1	7381.7	7410.7
7.5°	8550.6	8498.3	8277.3	7971.0	7639.5	7337.1	7025.0	6774.9	6590.9	6503.5	6528.8
10°	8587.4	8486.6	8126.1	7666.8	7182.0	6732.3	6239.9	5832.9	5530.4	5371.5	5410.3
12.5°	8603.0	8442.1	7914.8	7286.7	6621.9	5962.8	5237.7	4629.1	4194.8	4035.9	4002.9
15°	8618.5	8391.6	7682.2	6854.4	5945.3	5012.9	3997.2	3268.3	2907.8	2828.3	2810.7
17.5°	8622.4	8304.4	7418.6	6385.3	5152.5	3882.7	2733.3	2269.9	2272.0	2399.8	2415.4
20°	8581.7	8174.5	7098.8	5801.9	4202.6	2684.9	1876.5	1797.0	2089.6	2409.6	2448.3
22.5°	8488.7	8002.0	6736.2	5121.4	3115.1	1768.0	1451.9	1539.2	1917.2	2308.7	2353.3
25°	8370.3	7792.6	6307.8	4332.5	2062.6	1263.8	1217.4	1324.0	1579.8	1841.5	1866.8
27.5°	8209.5	7544.5	5827.0	3429.2	1339.6	1041.0	1071.9	1143.7	1248.4	1364.6	1376.4
30°	8002.0	7248.0	5313.4	2500.6	1011.9	936.4	980.9	1019.7	1064.2	1130.2	1135.9
32.5°	7763.6	6963.0	4786.1	1727.3	897.5	882.0	916.9	936.4	971.2	1011.9	1015.8
35°	7564.0	6691.7	4239.6	1221.2	849.1	841.4	864.6	872.3	905.3	949.9	953.7
37.5°	7449.6	6470.6	3675.3	984.7	816.1	804.4	818.0	818.0	864.6	930.5	940.2
40°	7457.3	6348.5	3111.3	889.9	788.9	773.4	775.3	775.3	835.5	907.2	913.0
42.5°	7668.7	6379.6	2611.2	852.9	767.6	750.2	740.6	746.3	796.6	843.2	847.1
45°	8164.9	6598.6	2142.0	829.7	746.3	740.6	719.2	717.2	736.6	757.9	757.9
47.5°	8979.1	7030.9	1824.1	814.1	728.9	726.9	701.8	676.6	674.5	682.4	682.4
50°	10303.0	7775.3	1610.9	796.6	717.2	701.8	672.7	633.8	620.3	626.1	626.1
52.5°	12288.0	9103.2	1529.5	773.4	692.1	666.8	633.8	595.0	583.4	585.4	585.4
55°	14891.5	11142.3	1517.9	746.3	664.8	624.2	597.1	568.0	554.4	558.2	558.2
57.5°	18072.6	13962.9	1725.3	703.6	628.0	581.6	566.0	546.7	536.9	542.8	540.8
60°	21939.8	17653.9	2558.8	659.0	591.3	542.8	542.8	527.2	519.5	525.2	523.4
62.5°	26394.4	21893.2	3597.8	626.1	552.5	511.8	519.5	511.8	503.9	507.9	505.9
65°	30345.0	24655.6	3369.2	601.0	513.7	482.7	496.3	492.5	486.5	490.5	488.5
67.5°	30459.4	23632.0	1892.0	573.7	476.9	453.6	473.0	471.0	467.2	471.0	469.2
70°	27183.3	19954.7	1066.2	523.4	438.2	418.7	445.9	443.9	440.0	447.7	445.9
72.5°	21778.9	14480.5	779.3	461.4	399.3	381.9	413.0	411.0	411.0	422.7	416.8
75°	12532.3	7451.5	622.3	395.4	358.7	345.0	372.2	374.1	377.9	393.5	381.9
77.5°	3572.6	2322.3	507.9	335.3	308.2	302.4	329.6	333.5	335.3	352.9	337.4
80°	1327.9	1070.1	418.7	281.1	252.1	254.0	279.2	284.9	286.9	304.3	284.9
82.5°	847.1	705.6	339.2	217.1	197.7	195.8	226.8	234.5	234.5	236.6	224.8
85°	494.2	422.7	255.8	157.1	139.5	133.8	168.6	182.3	176.3	172.6	164.7
87.5°	331.5	290.8	157.1	87.2	75.5	71.8	98.9	108.5	104.7	98.9	93.1
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)