

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: P269638

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269638
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-09-LED-E1-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 50721 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

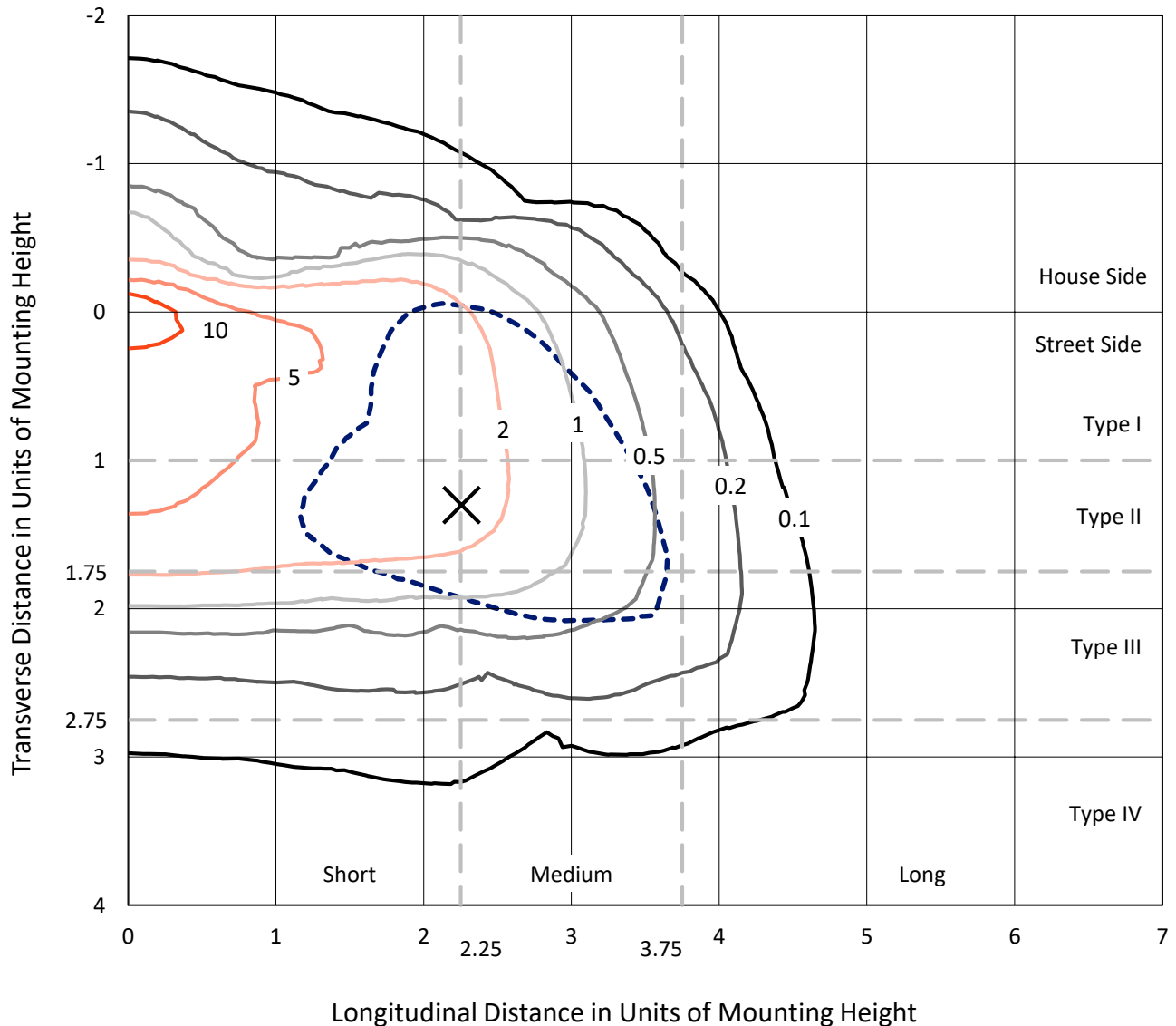


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

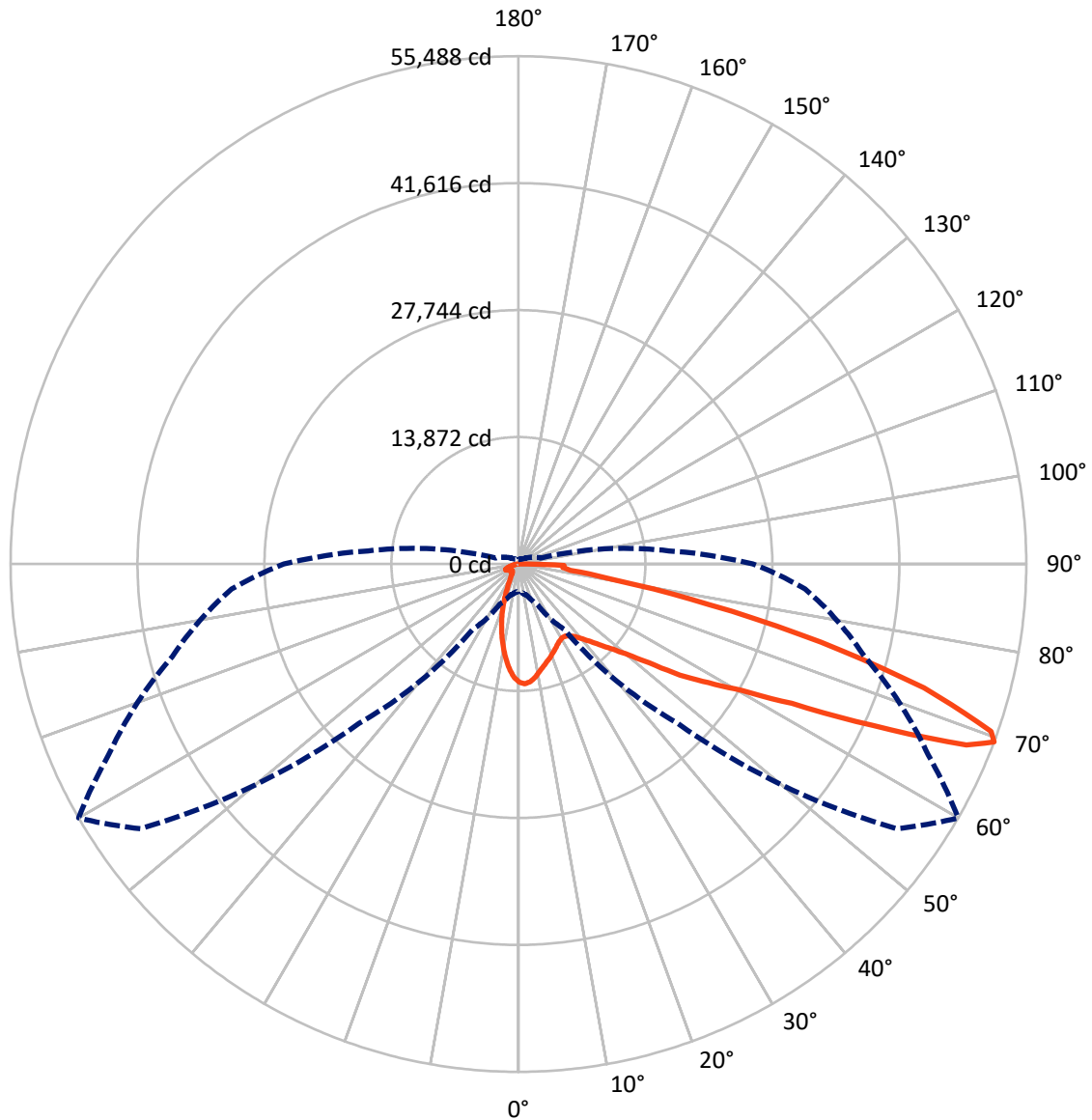


Based on 30 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - Non-Cutoff

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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	7216.0	0.0	7216.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	43505.0	0.0	43505.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	50721.0	0.0	50721.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.8	2.2
10°-20°	2328.3	4.6
20°-30°	2966.7	5.8
30°-40°	4078.4	8.0
40°-50°	6617.6	13.0
50°-60°	10613.0	20.9
60°-70°	14125.1	27.8
70°-80°	7626.5	15.0
80°-90°	1272.5	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°	50721.0	100.0
0°-180°	50721.0	100.0



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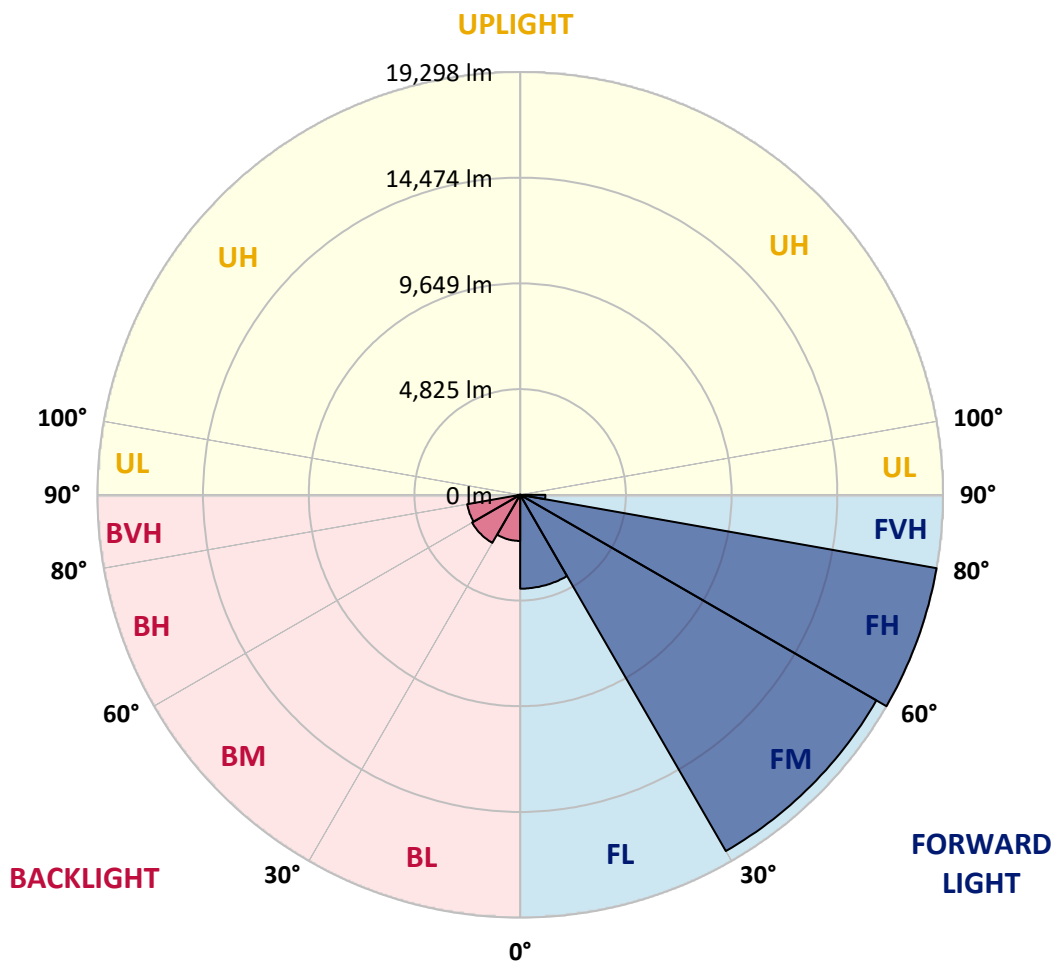
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4282.7	8.4			
FM	(30°-60°)	18774.0	37.0			
FH	(60°-80°)	19298.4	38.0			G5
FVH	(80°-90°)	1150.0	2.3			G5
BL	(0°-30°)	2105.1	4.2	B3/2500		
BM	(30°-60°)	2535.1	5.0	B3/5000		
BH	(60°-80°)	2453.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	122.5	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5
2.5°	13189.0	13218.5	13206.3	13198.8	13221.0	13186.7	13115.7	13093.5	13059.2	12978.4	12841.2
5°	12694.2	12782.3	12777.5	12843.6	12953.9	12983.4	12951.5	12956.3	12892.7	12792.1	12564.4
7.5°	11839.0	11875.9	11895.4	12040.1	12240.9	12402.5	12539.8	12583.8	12554.5	12468.7	12174.8
10°	10957.0	10986.5	11033.0	11202.0	11456.9	11679.9	11939.6	12089.0	12152.7	12138.0	11809.7
12.5°	10200.0	10229.3	10290.5	10481.8	10785.5	11059.9	11437.2	11623.4	11775.3	11866.0	11513.1
15°	9521.2	9584.9	9643.8	9864.3	10204.8	10565.0	10991.3	11226.6	11461.7	11665.1	11251.0
17.5°	8992.0	9055.8	9089.9	9290.9	9653.5	10094.6	10594.4	10871.3	11165.3	11498.6	10991.3
20°	8685.7	8715.1	8700.4	8813.1	9139.0	9607.1	10200.0	10520.9	10876.1	11341.7	10731.6
22.5°	8600.1	8602.3	8548.5	8536.2	8746.9	9141.4	9778.5	10168.0	10604.2	11238.8	10508.6
25°	8808.2	8801.0	8653.9	8533.8	8555.8	8786.2	9371.7	9825.0	10376.3	11216.7	10337.2
27.5°	9271.3	9293.3	9075.2	8849.9	8627.0	8619.5	9063.1	9540.9	10190.2	11317.1	10263.7
30°	9920.6	9957.4	9724.6	9438.0	9019.0	8673.5	8942.9	9371.7	10075.0	11525.4	10251.4
32.5°	10631.1	10670.3	10493.9	10192.6	9643.8	9006.6	9026.3	9386.5	10070.1	11817.1	10334.7
35°	11388.3	11432.4	11341.7	11086.9	10476.8	9621.7	9344.8	9624.1	10229.3	12262.9	10557.6
37.5°	12233.6	12302.2	12326.6	12084.1	11432.4	10432.6	9866.8	10075.0	10589.5	12882.9	10966.8
40°	13451.3	13546.8	13539.4	13191.5	12527.6	11527.9	10672.9	10726.8	11150.7	13711.0	11621.1
42.5°	15783.8	15803.4	15193.4	14436.2	13733.0	12679.4	11623.4	11579.3	11924.8	14759.6	12583.8
45°	18751.0	18670.1	17312.7	15850.0	14992.4	14002.5	12860.8	12645.3	12907.3	16038.6	13789.4
47.5°	21213.4	21027.0	19312.0	17293.1	16325.3	15440.7	14313.8	13936.3	14080.9	17489.1	15347.6
50°	22068.4	21928.7	20507.6	18493.6	17587.0	17195.0	16102.3	15568.2	15607.4	19218.9	17173.0
52.5°	21884.7	21865.0	20916.9	19285.1	18768.1	19037.6	18635.8	17912.9	17530.8	21139.9	19142.9
55°	21450.9	21492.6	21149.5	20206.3	20118.1	20816.3	21946.0	21411.8	20223.5	23077.8	21179.0
57.5°	19944.1	20052.0	20806.6	21365.2	22291.4	23330.2	24611.7	24459.7	23122.0	25172.8	23599.7
60°	16068.1	16317.9	18341.8	21139.9	24528.3	27777.2	28350.6	27997.7	26111.2	27772.3	26797.2
62.5°	11258.4	11518.1	13924.2	18302.5	24160.9	32800.1	35034.5	33513.0	30403.8	31601.8	30935.4
65°	6027.4	6152.3	7990.0	12699.1	20397.5	33836.4	44803.2	42487.9	37200.4	36323.2	34476.0
67.5°	3324.8	3393.4	4096.6	6412.0	13064.1	29796.2	51026.7	52776.1	45695.2	39466.9	33831.4
69°	3006.3	3070.0	3530.7	4856.1	8742.0	24636.1	50419.0	55488.2	49419.3	39155.7	31450.0
70°	2940.2	2999.0	3413.0	4476.4	7075.9	20306.7	48382.9	54795.0	50306.3	38040.9	29372.3
72.5°	2646.1	2709.8	3111.6	4020.6	6046.9	10124.0	38325.1	46329.6	45673.1	32983.7	22279.1
75°	2467.3	2526.2	3207.2	3937.5	5789.7	6407.2	25265.8	34145.1	33574.2	23073.0	12013.0
77.5°	1056.0	1051.0	1487.2	3332.3	5875.5	6203.8	13576.3	21331.0	19461.4	9861.9	3449.9
80°	705.7	693.4	705.7	980.1	5387.9	6238.1	7112.8	10827.1	8178.6	2513.8	1700.4
82.5°	607.7	597.8	619.9	597.8	1893.9	7120.1	6046.9	5757.9	3888.4	1428.5	842.9
85°	409.2	392.0	534.1	536.6	894.4	6326.3	6811.4	4863.6	3146.0	847.7	416.5
87.5°	196.0	191.1	311.2	379.8	524.3	2570.2	7642.1	4983.5	3173.0	433.7	198.4
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°	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5	12924.5
2.5°	12799.5	12699.1	12601.1	12483.4	12360.9	12223.7	12155.1	12086.5	12069.4	12049.8	11981.1
5°	12446.6	12304.7	12059.6	11790.1	11505.9	11229.1	11018.3	10886.0	10785.5	10734.0	10643.4
7.5°	11990.9	11782.7	11353.9	10888.4	10410.6	9974.5	9597.2	9359.5	9134.1	9028.8	8908.8
10°	11557.4	11246.2	10579.7	9893.7	9207.5	8548.5	7928.6	7490.1	7100.6	6882.5	6728.0
12.5°	11184.8	10758.6	9834.9	8906.2	7965.5	7027.0	6098.5	5368.2	4758.1	4437.2	4273.1
15°	10822.3	10307.7	9126.8	7948.3	6740.3	5463.9	4243.7	3415.4	2910.8	2709.8	2641.2
17.5°	10493.9	9834.9	8416.2	6982.9	5476.1	3932.5	2851.9	2396.1	2202.6	2136.4	2114.5
20°	10138.7	9357.0	7678.7	5973.4	4157.9	2749.1	2227.2	2026.2	1947.9	1928.2	1918.5
22.5°	9795.7	8886.7	6973.2	4892.9	2986.8	2121.8	1913.6	1830.2	1818.0	1835.1	1835.1
25°	9504.1	8465.3	6211.2	3763.4	2192.9	1786.2	1712.7	1693.0	1739.6	1803.3	1815.6
27.5°	9286.0	8119.8	5400.2	2778.5	1746.9	1553.3	1551.0	1582.9	1697.9	1820.4	1844.9
30°	9136.7	7791.4	4532.8	2004.2	1465.1	1367.2	1406.3	1474.9	1644.1	1818.0	1864.5
32.5°	9060.7	7548.8	3628.7	1551.0	1254.5	1200.6	1266.7	1350.1	1516.7	1678.4	1739.6
35°	9119.5	7370.1	2776.0	1293.6	1107.5	1065.7	1134.4	1215.2	1313.3	1382.0	1428.5
37.5°	9339.9	7299.0	2094.8	1159.0	1007.0	967.8	1021.7	1068.3	1107.5	1127.1	1149.1
40°	9815.2	7374.9	1678.4	1090.4	950.6	901.7	923.6	940.9	965.4	984.9	994.8
42.5°	10516.0	7602.7	1504.4	1063.4	921.2	850.2	845.2	852.6	884.6	921.2	928.6
45°	11496.1	8004.5	1492.2	1080.5	906.6	808.6	786.5	796.3	845.2	901.7	911.4
47.5°	12748.0	8617.1	1590.1	1132.0	918.7	786.5	749.7	762.0	823.2	899.3	911.4
50°	14264.7	9472.3	1754.3	1208.0	972.8	791.3	737.5	744.9	808.6	891.8	904.1
52.5°	16055.8	10685.1	1933.2	1281.4	1029.1	823.2	747.3	730.1	788.9	862.5	877.1
55°	18047.7	12240.9	2116.9	1347.5	1058.5	862.5	767.0	710.5	752.2	813.4	825.7
57.5°	20492.9	14416.5	2435.5	1411.2	1078.1	889.4	786.5	690.9	705.7	749.7	759.5
60°	23803.1	17494.0	2996.6	1516.7	1122.2	899.3	784.0	673.8	659.0	683.6	688.6
62.5°	27769.8	20835.9	3464.6	1649.0	1195.6	906.6	769.4	661.5	619.9	619.9	624.9
65°	30124.4	21730.3	3204.8	1759.2	1256.9	899.3	752.2	649.3	590.5	563.5	566.0
67.5°	28127.5	19111.1	2746.6	1781.2	1254.5	864.9	725.2	627.2	561.1	519.4	517.0
69°	25625.9	16489.5	2540.8	1722.4	1195.6	820.8	690.9	602.8	539.1	495.0	492.5
70°	23609.6	14889.4	2406.0	1658.7	1132.0	788.9	663.9	580.7	521.8	480.2	475.4
72.5°	17165.7	9756.4	2055.7	1426.0	933.5	661.5	573.4	509.6	465.5	441.0	436.1
75°	8577.9	4652.9	1668.5	1156.5	715.4	529.2	470.4	426.3	404.2	399.3	397.0
77.5°	2817.7	2131.6	1193.2	862.5	531.6	414.1	379.8	348.0	343.1	357.7	352.9
80°	1548.5	1239.8	757.1	571.0	362.6	303.7	299.0	281.8	289.2	313.6	308.7
82.5°	788.9	644.4	467.9	343.1	245.0	218.1	237.6	227.9	237.6	259.7	257.3
85°	389.5	352.9	296.5	208.2	161.8	139.6	169.1	176.3	181.3	198.4	198.4
87.5°	225.5	208.2	156.8	98.1	80.8	73.5	98.1	95.6	112.6	122.4	120.1
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)