

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: P193723

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193723
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-05-LED-E1-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 26633 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

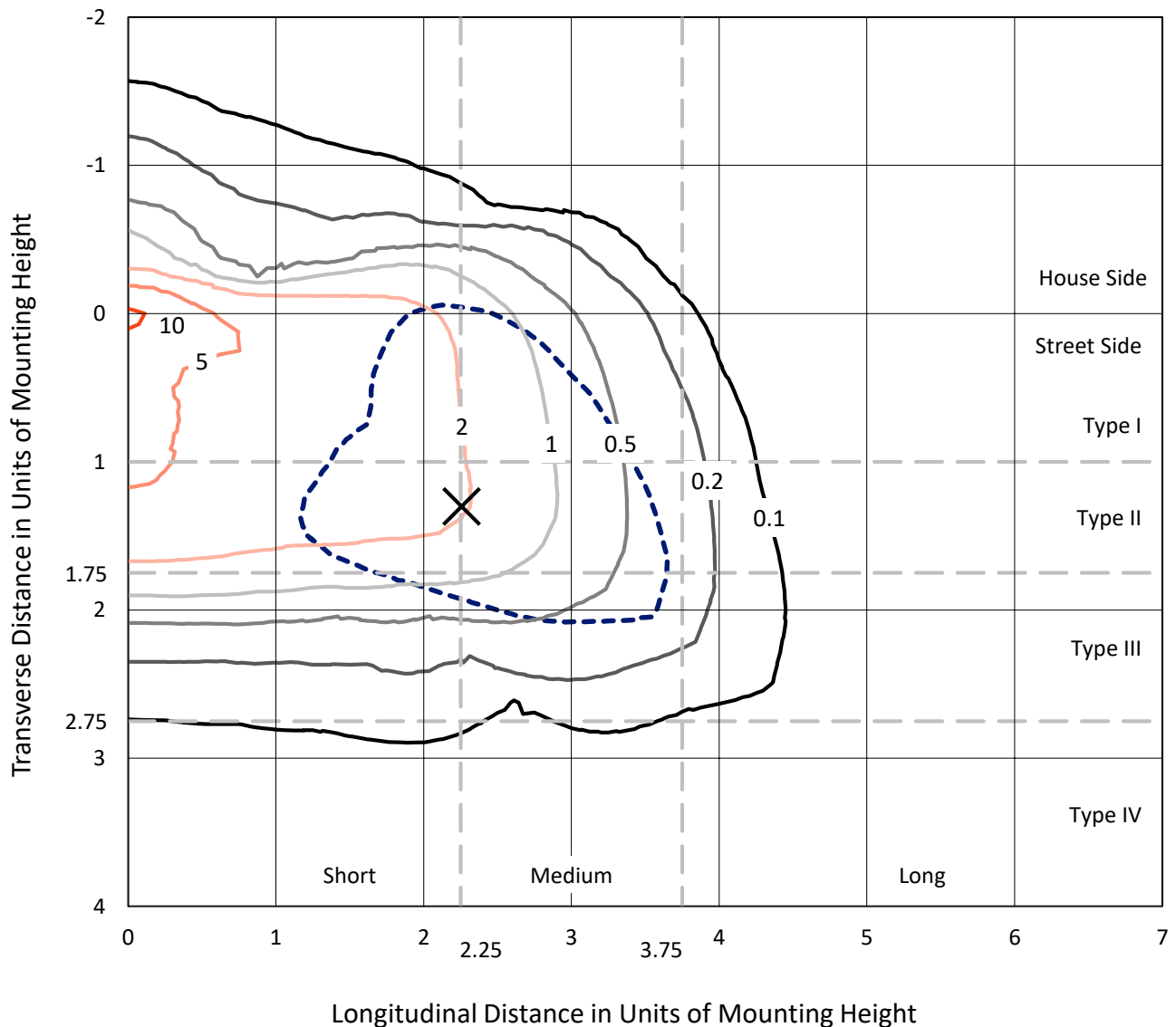


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

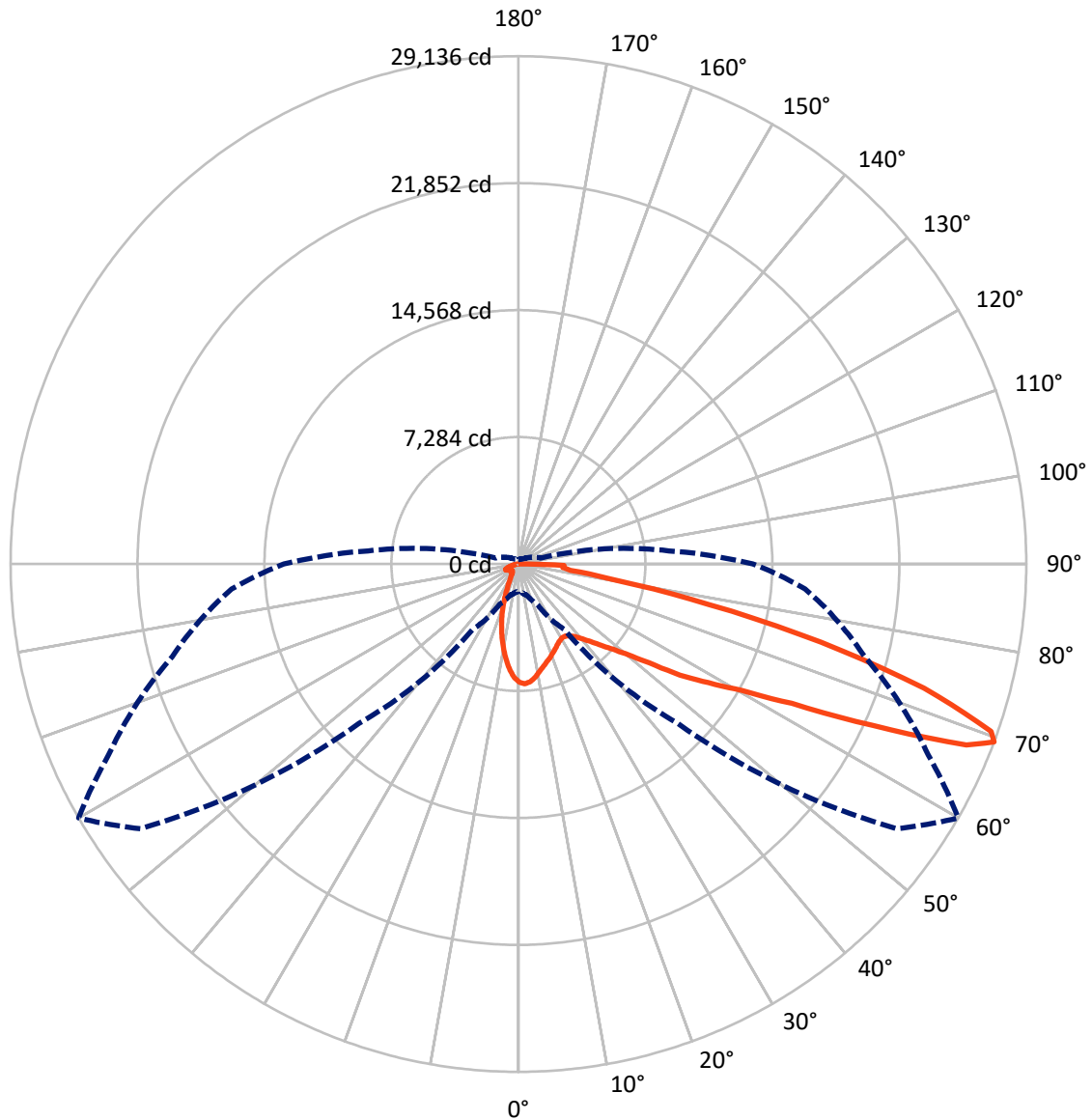


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - Non-Cutoff

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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	3789.0	0.0	3789.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22844.0	0.0	22844.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	26633.0	0.0	26633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.8	2.2
10°-20°	1222.6	4.6
20°-30°	1557.8	5.8
30°-40°	2141.5	8.0
40°-50°	3474.8	13.0
50°-60°	5572.8	20.9
60°-70°	7416.9	27.8
70°-80°	4004.6	15.0
80°-90°	668.2	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°	26633.0	100.0
0°-180°	26633.0	100.0

Coefficient of Utilization



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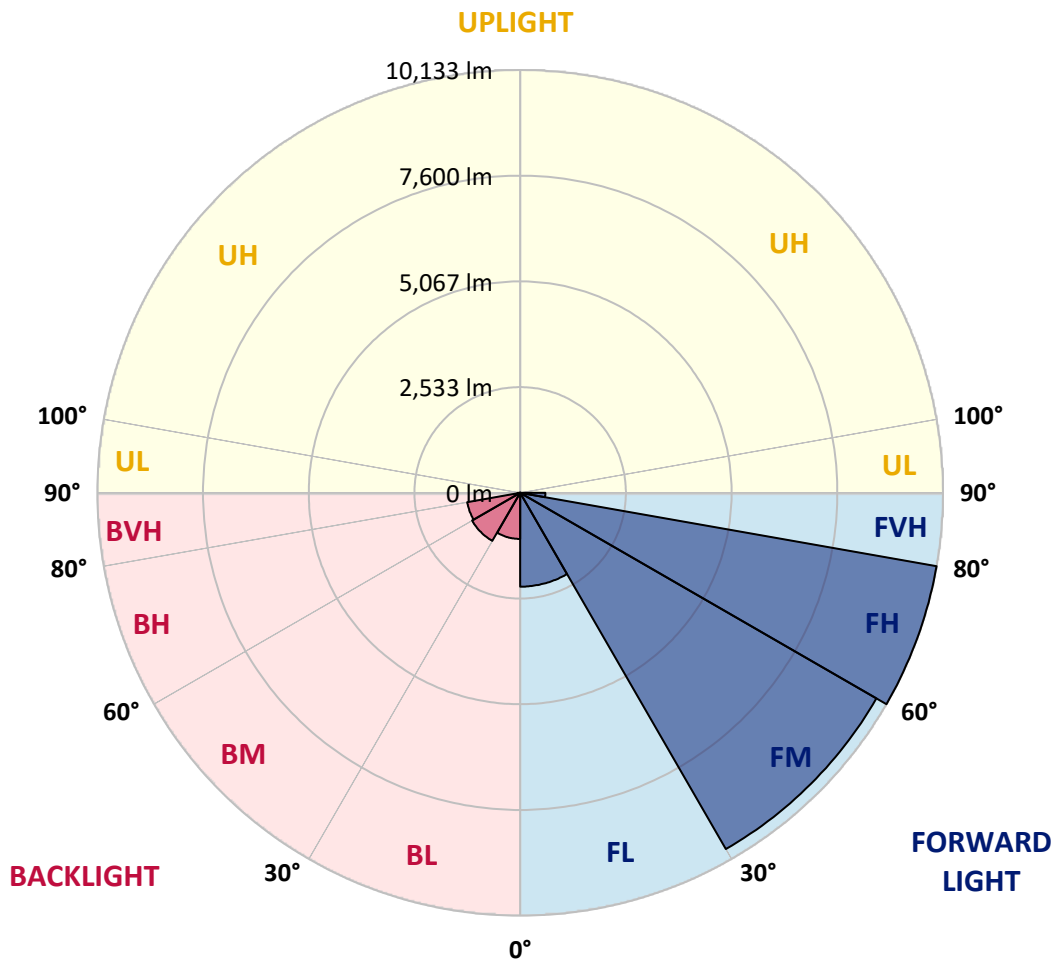
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2248.8	8.4			
FM	(30°-60°)	9858.0	37.0			
FH	(60°-80°)	10133.3	38.0			G4/12000
FVH	(80°-90°)	603.8	2.3			G4/750
BL	(0°-30°)	1105.4	4.2	B3/2500		
BM	(30°-60°)	1331.2	5.0	B2/2500		
BH	(60°-80°)	1288.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	64.3	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°	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5
2.5°	6925.4	6940.9	6934.4	6930.6	6942.2	6924.2	6886.8	6875.3	6857.3	6814.8	6742.8
5°	6665.6	6711.9	6709.3	6744.0	6801.9	6817.4	6800.6	6803.2	6769.8	6717.0	6597.4
7.5°	6216.6	6235.9	6246.1	6322.1	6427.5	6512.5	6584.5	6607.7	6592.2	6547.2	6392.8
10°	5753.4	5768.8	5793.3	5882.1	6015.9	6132.9	6269.3	6347.8	6381.2	6373.5	6201.1
12.5°	5355.9	5371.3	5403.5	5503.8	5663.3	5807.4	6005.6	6103.3	6183.1	6230.7	6045.4
15°	4999.5	5032.9	5063.8	5179.6	5358.4	5547.6	5771.4	5894.9	6018.4	6125.2	5907.8
17.5°	4721.6	4755.0	4773.1	4878.6	5069.0	5300.5	5563.0	5708.4	5862.8	6037.7	5771.4
20°	4560.8	4576.2	4568.5	4627.7	4798.8	5044.5	5355.9	5524.4	5710.9	5955.4	5635.0
22.5°	4515.8	4517.0	4488.7	4482.3	4592.9	4800.1	5134.6	5339.1	5568.1	5901.4	5518.0
25°	4625.1	4621.2	4544.1	4481.0	4492.6	4613.5	4921.0	5159.0	5448.5	5889.8	5427.9
27.5°	4868.3	4879.8	4765.3	4647.0	4529.9	4526.0	4758.9	5009.8	5350.7	5942.5	5389.3
30°	5209.2	5228.5	5106.3	4955.7	4735.7	4554.3	4695.9	4921.0	5290.2	6051.9	5382.9
32.5°	5582.3	5602.9	5510.2	5352.0	5063.8	4729.3	4739.6	4928.7	5287.7	6205.0	5426.6
35°	5979.8	6003.0	5955.4	5821.6	5501.2	5052.2	4906.9	5053.5	5371.3	6439.1	5543.7
37.5°	6423.7	6459.7	6472.6	6345.2	6003.0	5478.1	5180.9	5290.2	5560.4	6764.6	5758.5
40°	7063.1	7113.3	7109.4	6926.7	6578.1	6053.2	5604.2	5632.5	5855.0	7199.5	6102.1
42.5°	8287.9	8298.2	7977.8	7580.3	7211.1	6657.8	6103.3	6080.2	6261.6	7750.1	6607.7
45°	9845.9	9803.4	9090.7	8322.6	7872.3	7352.6	6753.0	6639.8	6777.5	8421.7	7240.6
47.5°	11138.9	11041.1	10140.5	9080.4	8572.2	8107.8	7516.0	7317.8	7393.7	9183.3	8058.9
50°	11587.9	11514.5	10768.3	9710.8	9234.8	9028.9	8455.1	8174.7	8195.3	10091.6	9017.4
52.5°	11491.4	11481.1	10983.2	10126.3	9854.9	9996.4	9785.4	9405.9	9205.2	11100.3	10051.7
55°	11263.6	11285.5	11105.4	10610.1	10563.8	10930.4	11523.5	11243.1	10619.1	12117.9	11120.8
57.5°	10472.4	10529.0	10925.3	11218.6	11704.9	12250.4	12923.3	12843.5	12141.1	13217.9	12391.9
60°	8437.1	8568.3	9631.0	11100.3	12879.5	14585.5	14886.5	14701.3	13710.6	14582.9	14070.9
62.5°	5911.6	6048.0	7311.4	9610.4	12686.6	17222.9	18396.2	17597.3	15964.7	16593.8	16243.8
65°	3164.9	3230.5	4195.4	6668.1	10710.4	17767.1	23525.7	22309.9	19533.5	19072.9	18102.9
67.5°	1745.8	1781.9	2151.1	3366.9	6859.8	15645.6	26793.5	27712.0	23994.0	20723.6	17764.5
69°	1578.6	1612.0	1853.9	2549.9	4590.4	12936.1	26474.4	29136.2	25949.5	20560.2	16514.0
70°	1543.8	1574.7	1792.1	2350.5	3715.5	10662.8	25405.3	28772.2	26415.2	19974.8	15423.0
72.5°	1389.5	1422.9	1633.9	2111.2	3175.2	5316.0	20124.0	24327.2	23982.4	17319.4	11698.5
75°	1295.5	1326.4	1684.1	2067.5	3040.1	3364.3	13266.8	17929.2	17629.4	12115.3	6307.9
77.5°	554.5	551.9	780.9	1749.7	3085.1	3257.5	7128.7	11200.6	10219.0	5178.3	1811.4
80°	370.5	364.1	370.5	514.6	2829.1	3275.5	3734.8	5685.2	4294.5	1320.0	892.9
82.5°	319.1	313.9	325.5	313.9	994.5	3738.7	3175.2	3023.4	2041.7	750.1	442.6
85°	214.9	205.8	280.5	281.8	469.6	3321.8	3576.6	2553.8	1651.9	445.1	218.7
87.5°	102.9	100.4	163.4	199.4	275.3	1349.6	4012.7	2616.8	1666.1	227.7	104.2
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°	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5	6786.5
2.5°	6720.9	6668.1	6616.7	6554.9	6490.6	6418.5	6382.5	6346.5	6337.5	6327.2	6291.2
5°	6535.6	6461.0	6332.3	6190.8	6041.6	5896.2	5785.6	5716.1	5663.3	5636.3	5588.7
7.5°	6296.3	6187.0	5961.8	5717.4	5466.5	5237.5	5039.4	4914.6	4796.2	4740.9	4677.9
10°	6068.6	5905.2	5555.3	5195.0	4834.8	4488.7	4163.2	3932.9	3728.4	3613.9	3532.8
12.5°	5873.1	5649.2	5164.2	4676.6	4182.5	3689.8	3202.2	2818.8	2498.5	2329.9	2243.7
15°	5682.6	5412.5	4792.4	4173.5	3539.3	2869.0	2228.3	1793.4	1528.4	1422.9	1386.9
17.5°	5510.2	5164.2	4419.3	3666.6	2875.4	2064.9	1497.5	1258.2	1156.6	1121.9	1110.3
20°	5323.7	4913.3	4032.0	3136.6	2183.3	1443.5	1169.5	1064.0	1022.8	1012.5	1007.4
22.5°	5143.6	4666.3	3661.5	2569.2	1568.3	1114.1	1004.8	961.0	954.6	963.6	963.6
25°	4990.5	4445.0	3261.4	1976.1	1151.5	937.9	899.3	889.0	913.4	946.9	953.3
27.5°	4876.0	4263.6	2835.5	1458.9	917.3	815.7	814.4	831.1	891.6	955.9	968.8
30°	4797.5	4091.2	2380.1	1052.4	769.4	717.9	738.5	774.5	863.3	954.6	979.1
32.5°	4757.6	3963.8	1905.4	814.4	658.7	630.4	665.1	708.9	796.4	881.3	913.4
35°	4788.5	3869.9	1457.6	679.3	581.5	559.6	595.7	638.1	689.6	725.6	750.1
37.5°	4904.3	3832.6	1100.0	608.5	528.8	508.2	536.5	560.9	581.5	591.8	603.4
40°	5153.9	3872.5	881.3	572.5	499.2	473.4	485.0	494.0	506.9	517.2	522.3
42.5°	5521.8	3992.1	789.9	558.4	483.7	446.4	443.9	447.7	464.4	483.7	487.6
45°	6036.4	4203.1	783.5	567.4	476.0	424.6	413.0	418.1	443.9	473.4	478.6
47.5°	6693.9	4524.8	835.0	594.4	482.5	413.0	393.7	400.1	432.3	472.2	478.6
50°	7490.2	4973.8	921.2	634.3	510.8	415.6	387.2	391.1	424.6	468.3	474.7
52.5°	8430.7	5610.6	1015.1	672.9	540.3	432.3	392.4	383.4	414.3	452.9	460.6
55°	9476.6	6427.5	1111.6	707.6	555.8	452.9	402.7	373.1	395.0	427.1	433.6
57.5°	10760.6	7570.0	1278.8	741.0	566.1	467.0	413.0	362.8	370.5	393.7	398.8
60°	12498.7	9185.9	1573.4	796.4	589.2	472.2	411.7	353.8	346.1	358.9	361.5
62.5°	14581.6	10940.7	1819.2	865.8	627.8	476.0	404.0	347.4	325.5	325.5	328.1
65°	15818.0	11410.3	1682.8	923.7	660.0	472.2	395.0	340.9	310.1	295.9	297.2
67.5°	14769.5	10035.0	1442.2	935.3	658.7	454.1	380.8	329.4	294.6	272.7	271.5
69°	13455.9	8658.4	1334.1	904.4	627.8	431.0	362.8	316.5	283.0	259.9	258.6
70°	12397.1	7818.3	1263.4	871.0	594.4	414.3	348.7	304.9	274.0	252.2	249.6
72.5°	9013.5	5123.0	1079.4	748.8	490.2	347.4	301.1	267.6	244.4	231.6	229.0
75°	4504.2	2443.1	876.1	607.2	375.7	277.9	247.0	223.9	212.3	209.7	208.4
77.5°	1479.5	1119.3	626.5	452.9	279.2	217.4	199.4	182.7	180.1	187.8	185.3
80°	813.1	651.0	397.5	299.8	190.4	159.5	157.0	148.0	151.8	164.7	162.1
82.5°	414.3	338.4	245.7	180.1	128.7	114.5	124.8	119.6	124.8	136.4	135.1
85°	204.6	185.3	155.7	109.4	84.9	73.3	88.8	92.6	95.2	104.2	104.2
87.5°	118.4	109.4	82.3	51.5	42.5	38.6	51.5	50.2	59.2	64.3	63.0
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)