

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: P269634

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269634
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-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 30464.2 lumens
Efficiency: N/A
Efficacy: 105.0 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 - G4

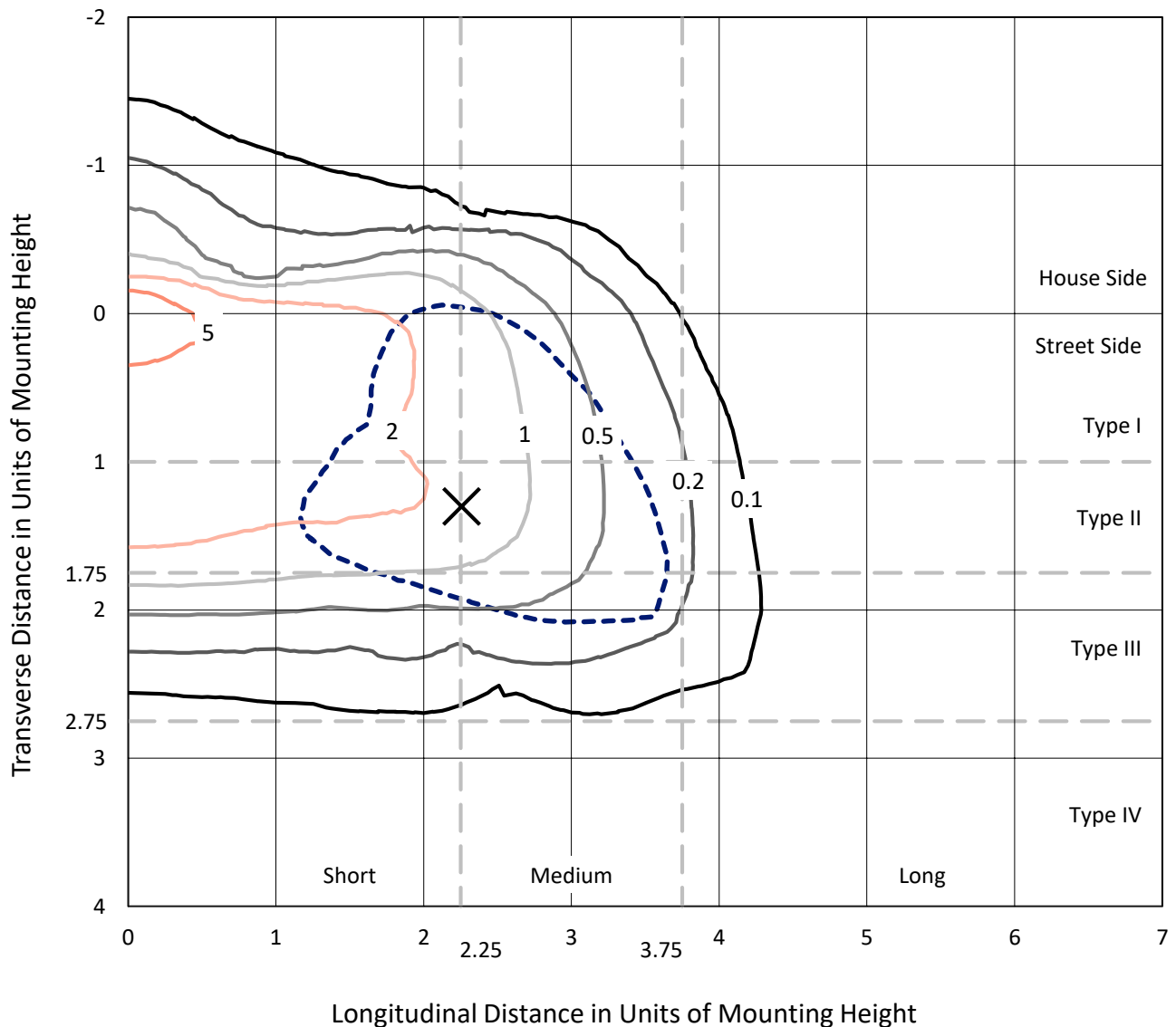
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

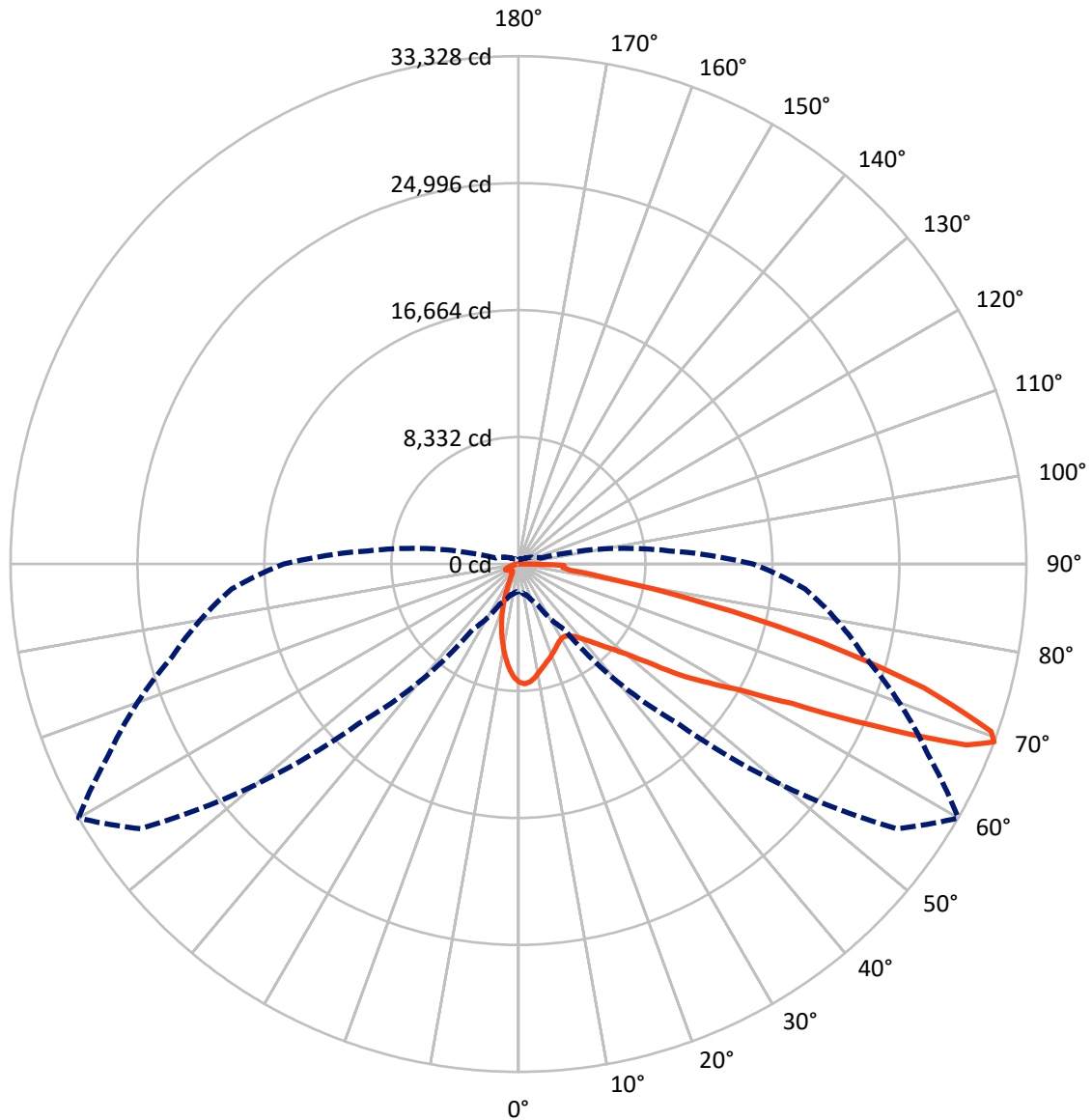
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	4334.1	0.0	4334.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26130.1	0.0	26130.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	30464.2	0.0	30464.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.4	2.2
10°-20°	1398.4	4.6
20°-30°	1781.9	5.8
30°-40°	2449.6	8.0
40°-50°	3974.7	13.0
50°-60°	6374.4	20.9
60°-70°	8483.9	27.8
70°-80°	4580.6	15.0
80°-90°	764.3	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°	30464.2	100.0
0°-180°	30464.2	100.0



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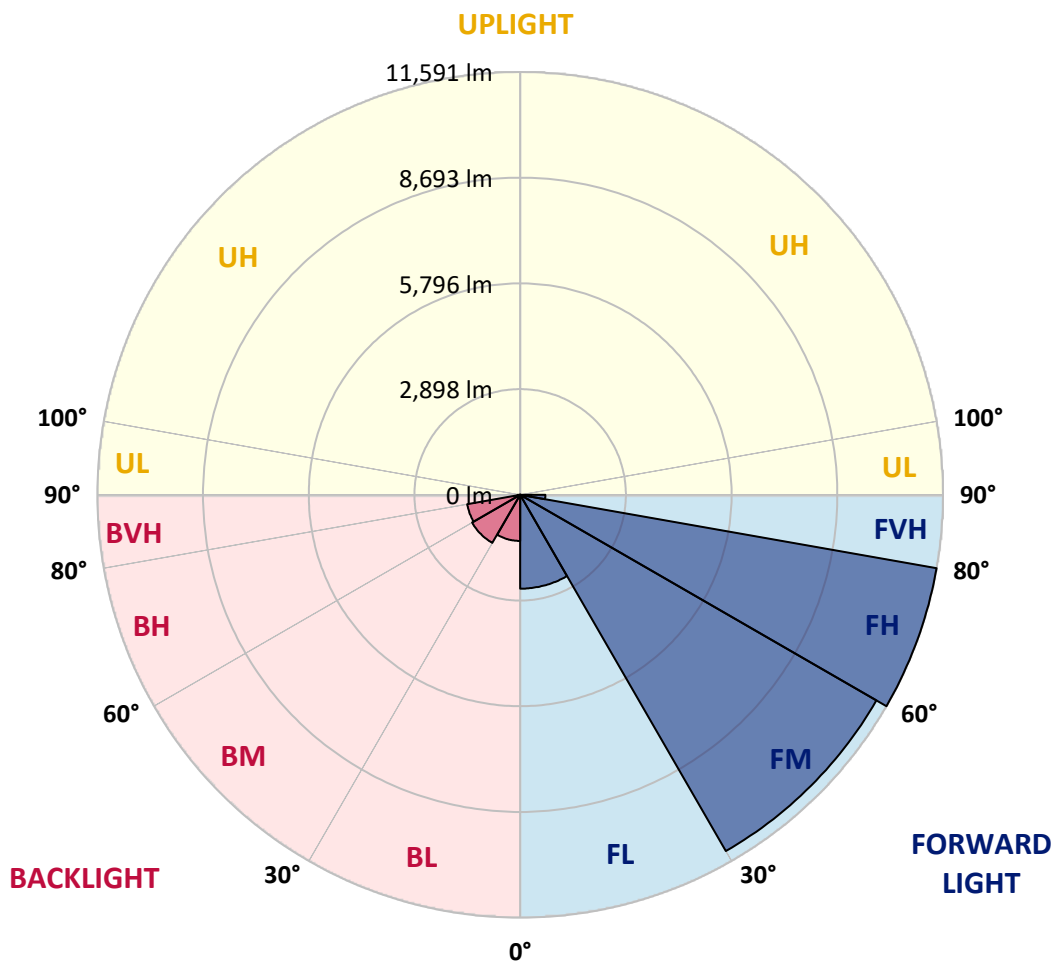
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2572.3	8.4			
FM	(30°-60°)	11276.1	37.0			
FH	(60°-80°)	11591.0	38.0			G4/12000
FVH	(80°-90°)	690.7	2.3			G4/750
BL	(0°-30°)	1264.4	4.2	B3/2500		
BM	(30°-60°)	1522.7	5.0	B2/2500		
BH	(60°-80°)	1473.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	73.6	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°	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8
2.5°	7921.7	7939.3	7931.9	7927.5	7940.7	7920.1	7877.5	7864.3	7843.7	7795.1	7712.7
5°	7624.5	7677.4	7674.4	7714.1	7780.4	7798.0	7779.0	7781.8	7743.6	7683.3	7546.4
7.5°	7110.9	7132.9	7144.7	7231.4	7352.2	7449.3	7531.7	7558.2	7540.6	7489.0	7312.5
10°	6581.1	6598.7	6626.6	6728.1	6881.2	7015.1	7171.2	7260.9	7299.2	7290.4	7093.1
12.5°	6126.4	6144.0	6180.8	6295.5	6478.0	6642.8	6869.5	6981.3	7072.5	7127.1	6915.2
15°	5718.7	5757.0	5792.2	5924.7	6129.2	6345.5	6601.6	6742.9	6884.3	7006.3	6757.6
17.5°	5400.8	5439.1	5459.7	5580.4	5798.1	6063.0	6363.2	6529.5	6706.1	6906.3	6601.6
20°	5216.8	5234.6	5225.7	5293.4	5489.2	5770.3	6126.4	6319.0	6532.5	6812.0	6445.7
22.5°	5165.3	5166.8	5134.4	5127.0	5253.6	5490.6	5873.2	6107.1	6369.2	6750.3	6311.8
25°	5290.5	5286.0	5197.8	5125.5	5138.8	5277.3	5628.9	5901.1	6232.4	6737.0	6208.7
27.5°	5568.6	5581.8	5450.8	5315.5	5181.6	5177.1	5443.5	5730.5	6120.4	6797.4	6164.6
30°	5958.5	5980.6	5840.8	5668.7	5417.0	5209.5	5371.3	5628.9	6051.3	6922.5	6157.3
32.5°	6385.3	6408.9	6302.9	6121.9	5792.2	5409.7	5421.5	5637.8	6048.3	7097.6	6207.3
35°	6840.1	6866.6	6812.0	6659.0	6292.5	5778.9	5612.7	5780.5	6144.0	7365.5	6341.1
37.5°	7347.7	7389.0	7403.7	7257.9	6866.6	6266.0	5926.2	6051.3	6360.3	7737.7	6586.9
40°	8079.1	8136.6	8132.1	7923.1	7524.4	6924.0	6410.3	6442.7	6697.4	8235.1	6979.8
42.5°	9480.2	9491.9	9125.4	8670.7	8248.3	7615.7	6981.3	6954.9	7162.4	8865.0	7558.2
45°	11262.2	11213.6	10398.4	9519.9	9004.8	8410.2	7724.4	7595.0	7752.5	9633.2	8282.3
47.5°	12741.2	12629.4	11599.3	10386.7	9805.3	9274.1	8597.1	8370.5	8457.4	10504.3	9218.1
50°	13254.9	13170.9	12317.4	11107.7	10563.2	10327.8	9671.4	9350.5	9374.2	11543.3	10314.5
52.5°	13144.4	13132.6	12563.2	11583.0	11272.6	11434.4	11193.2	10758.9	10529.4	12697.1	11497.6
55°	12883.9	12909.0	12702.9	12136.5	12083.5	12502.8	13181.2	12860.3	12146.6	13861.0	12720.5
57.5°	11978.9	12043.7	12497.0	12832.5	13388.7	14012.8	14782.2	14691.2	13887.5	15119.4	14174.5
60°	9650.9	9800.9	11016.5	12697.1	14732.4	16683.6	17028.0	16816.1	15683.0	16680.6	16095.0
62.5°	6762.0	6918.0	8363.2	10992.9	14511.5	19700.4	21042.5	20128.7	18261.3	18980.8	18580.5
65°	3620.2	3695.2	4798.9	7627.4	12251.2	20323.0	26909.8	25519.2	22343.5	21816.5	20707.0
67.5°	1997.0	2038.2	2460.5	3851.3	7846.6	17896.3	30647.7	31698.5	27445.6	23704.7	20320.0
69°	1805.7	1844.0	2120.5	2916.7	5250.8	14797.1	30282.9	33327.6	29682.3	23517.7	18889.6
70°	1766.0	1801.2	2049.9	2688.6	4250.1	12196.6	29059.9	32911.1	30215.1	22848.2	17641.6
72.5°	1589.3	1627.5	1869.0	2415.0	3631.9	6080.6	23018.9	27826.6	27432.4	19810.9	13381.3
75°	1481.9	1517.2	1926.3	2364.9	3477.3	3848.2	15175.2	20508.3	20165.4	13858.2	7215.2
77.5°	634.3	631.2	893.3	2001.5	3528.9	3726.1	8154.2	12811.8	11688.9	5923.2	2072.0
80°	423.8	416.5	423.8	588.7	3236.1	3746.7	4272.1	6503.0	4912.2	1510.0	1021.4
82.5°	364.9	359.1	372.3	359.1	1137.6	4276.6	3631.9	3458.2	2335.5	857.9	506.3
85°	245.7	235.4	320.9	322.3	537.1	3799.7	4091.2	2921.2	1889.6	509.2	250.2
87.5°	117.8	114.9	186.8	228.1	314.9	1543.6	4590.0	2993.2	1905.8	260.5	119.1
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°	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8
2.5°	7687.6	7627.4	7568.5	7497.9	7424.3	7341.8	7300.6	7259.5	7249.1	7237.4	7196.1
5°	7475.8	7390.4	7243.3	7081.3	6910.8	6744.4	6617.9	6538.4	6478.0	6447.1	6392.7
7.5°	7202.0	7076.9	6819.5	6539.8	6252.8	5990.9	5764.3	5621.6	5486.2	5422.9	5350.8
10°	6941.7	6754.6	6354.4	5942.4	5530.3	5134.4	4762.2	4498.7	4264.8	4133.7	4041.0
12.5°	6718.0	6461.9	5907.1	5349.2	4784.3	4220.5	3662.7	3224.2	2857.9	2665.1	2566.5
15°	6500.0	6191.1	5481.7	4774.0	4048.4	3281.7	2548.9	2051.4	1748.3	1627.5	1586.3
17.5°	6302.9	5907.1	5055.0	4194.0	3289.1	2362.0	1713.0	1439.3	1322.9	1283.3	1270.1
20°	6089.5	5620.1	4612.0	3587.8	2497.3	1651.2	1337.7	1217.1	1170.0	1158.2	1152.3
22.5°	5883.4	5337.5	4188.2	2938.8	1793.8	1274.4	1149.3	1099.3	1091.9	1102.2	1102.2
25°	5708.4	5084.3	3730.5	2260.3	1317.0	1072.8	1028.6	1016.9	1044.9	1083.0	1090.5
27.5°	5577.3	4876.9	3243.4	1668.8	1049.3	933.0	931.5	950.6	1019.8	1093.3	1108.1
30°	5487.7	4679.7	2722.5	1203.8	880.0	821.2	844.6	885.9	987.4	1091.9	1119.8
32.5°	5442.0	4534.0	2179.5	931.5	753.5	721.1	760.9	810.9	910.9	1008.1	1044.9
35°	5477.3	4426.6	1667.3	777.0	665.1	640.1	681.4	730.0	788.8	829.9	857.9
37.5°	5609.7	4383.9	1258.3	696.0	604.7	581.4	613.6	641.6	665.1	677.0	690.2
40°	5895.2	4429.5	1008.1	654.9	571.1	541.6	554.9	565.2	579.9	591.5	597.5
42.5°	6316.2	4566.4	903.5	638.6	553.4	510.6	507.7	512.2	531.3	553.4	557.8
45°	6904.8	4807.8	896.1	648.9	544.6	485.7	472.4	478.3	507.7	541.6	547.4
47.5°	7656.9	5175.7	955.1	679.8	551.9	472.4	450.3	457.6	494.4	540.2	547.4
50°	8567.8	5689.2	1053.7	725.6	584.3	475.4	443.0	447.4	485.7	535.7	543.0
52.5°	9643.5	6417.8	1161.1	769.7	618.0	494.4	448.9	438.6	473.9	518.1	526.9
55°	10839.8	7352.2	1271.6	809.5	635.7	518.1	460.7	426.8	451.8	488.6	496.0
57.5°	12308.5	8658.9	1462.8	847.6	647.5	534.2	472.4	414.9	423.8	450.3	456.2
60°	14296.6	10507.3	1799.8	910.9	674.0	540.2	470.9	404.6	395.9	410.5	413.5
62.5°	16679.2	12514.6	2080.8	990.4	718.1	544.6	462.1	397.3	372.3	372.3	375.2
65°	18093.4	13051.7	1924.9	1056.6	754.9	540.2	451.8	390.0	354.7	338.5	340.0
67.5°	16894.1	11478.5	1649.6	1069.8	753.5	519.5	435.6	376.7	337.0	312.0	310.5
69°	15391.6	9904.0	1526.1	1034.6	718.1	493.0	414.9	361.9	323.7	297.2	295.8
70°	14180.5	8942.9	1445.2	996.3	679.8	473.9	398.8	348.8	313.5	288.4	285.5
72.5°	10310.0	5860.0	1234.7	856.4	560.7	397.3	344.4	306.1	279.6	264.9	261.9
75°	5152.0	2794.5	1002.1	694.6	429.7	317.9	282.5	256.0	242.8	239.8	238.4
77.5°	1692.3	1280.4	716.7	518.1	319.3	248.7	228.1	208.9	206.0	214.9	211.9
80°	930.0	744.7	454.7	343.0	217.7	182.4	179.5	169.2	173.6	188.4	185.4
82.5°	473.9	387.0	281.1	206.0	147.1	131.0	142.7	136.8	142.7	155.9	154.5
85°	234.0	211.9	178.0	125.0	97.1	83.9	101.6	106.0	109.0	119.1	119.1
87.5°	135.4	125.0	94.2	58.8	48.6	44.1	58.8	57.4	67.7	73.7	72.1
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)