

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: P269484

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28082.1 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

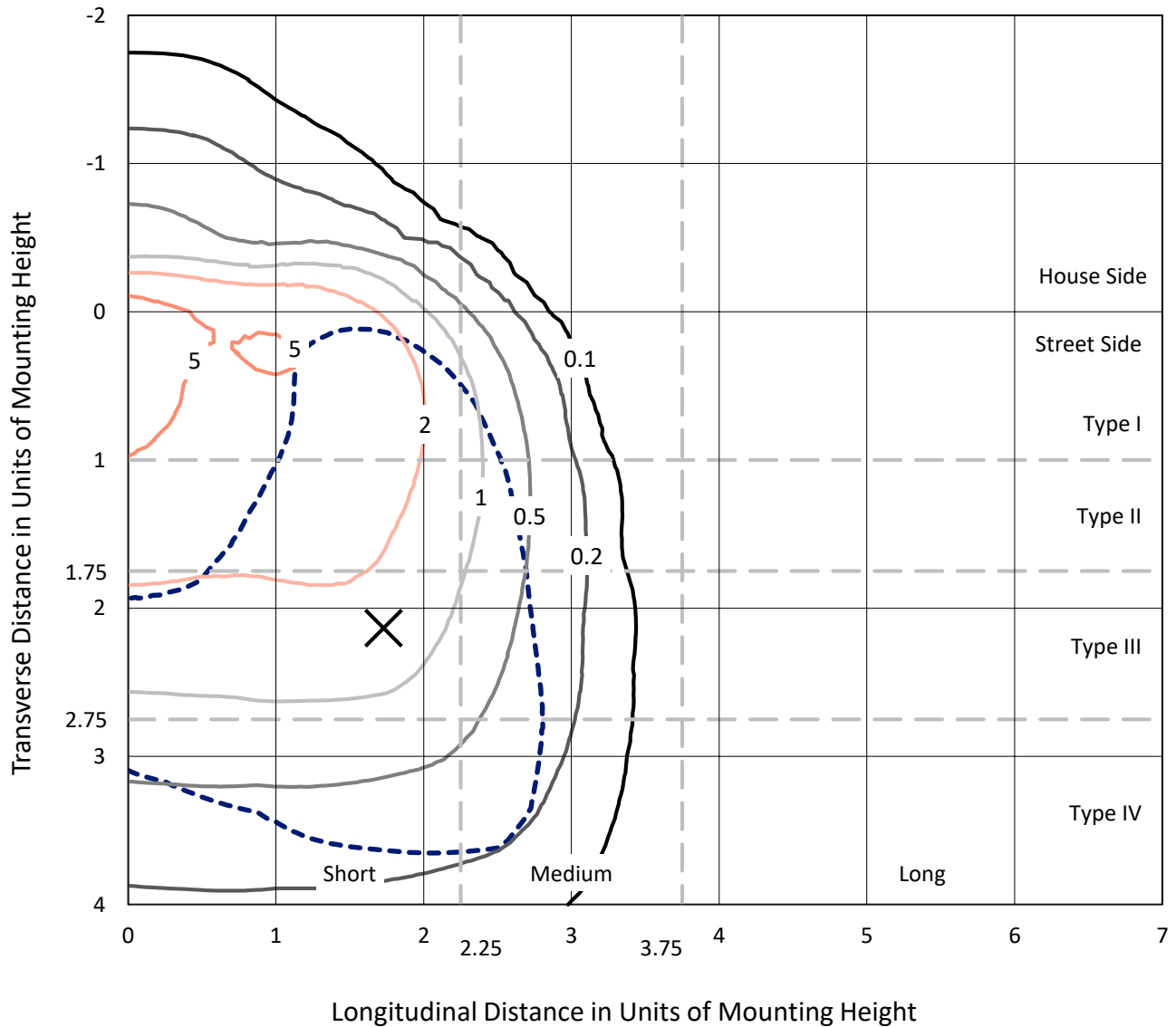
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

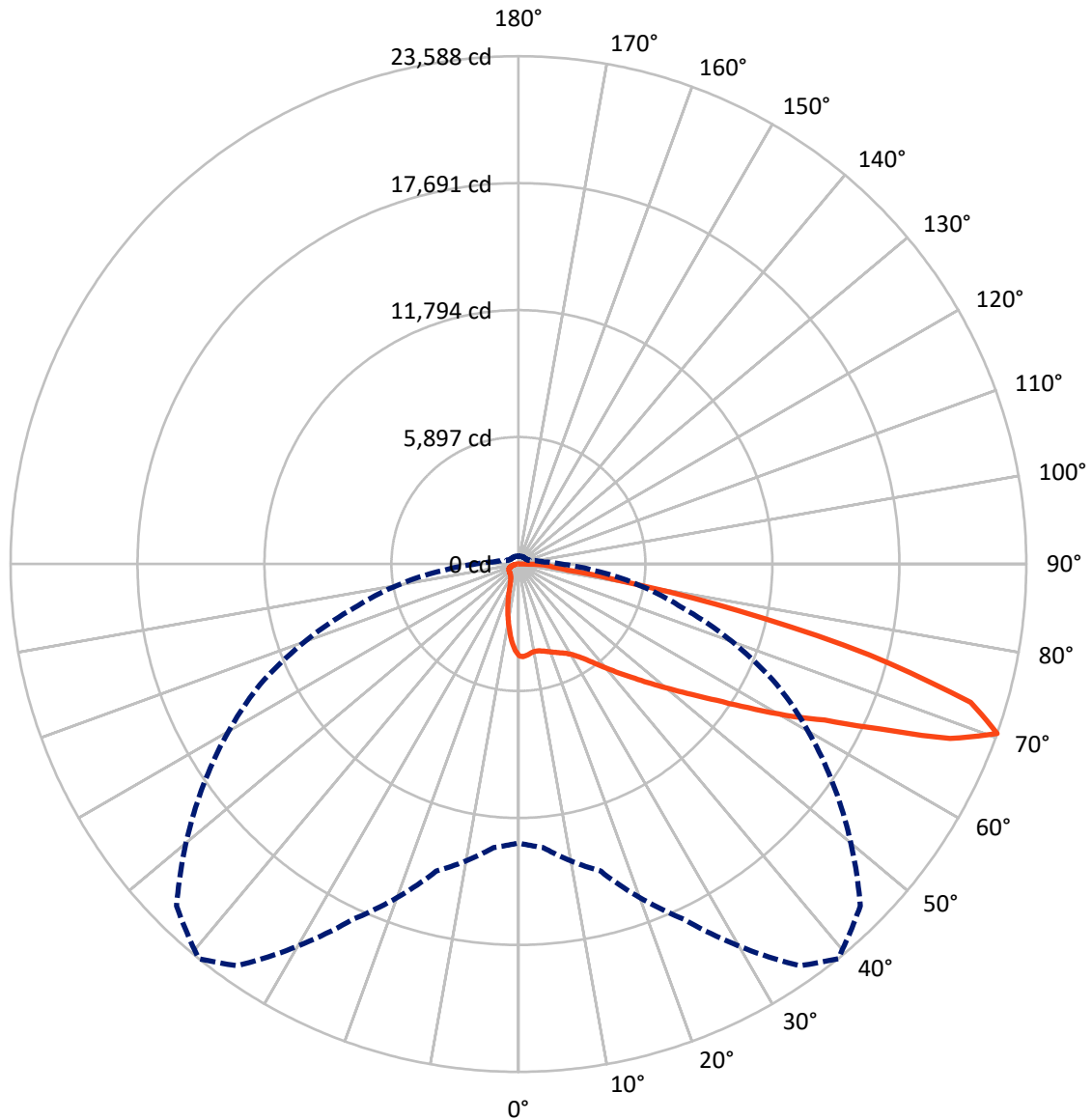
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3193.9	0.0	3193.9
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	24888.2	0.0	24888.2
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	28082.1	0.0	28082.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.9	1.3
10°-20°	914.5	3.3
20°-30°	1424.0	5.1
30°-40°	2218.3	7.9
40°-50°	3724.1	13.3
50°-60°	5916.1	21.1
60°-70°	7891.4	28.1
70°-80°	4765.4	17.0
80°-90°	862.5	3.1
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°	28082.1	100.0
0°-180°	28082.1	100.0



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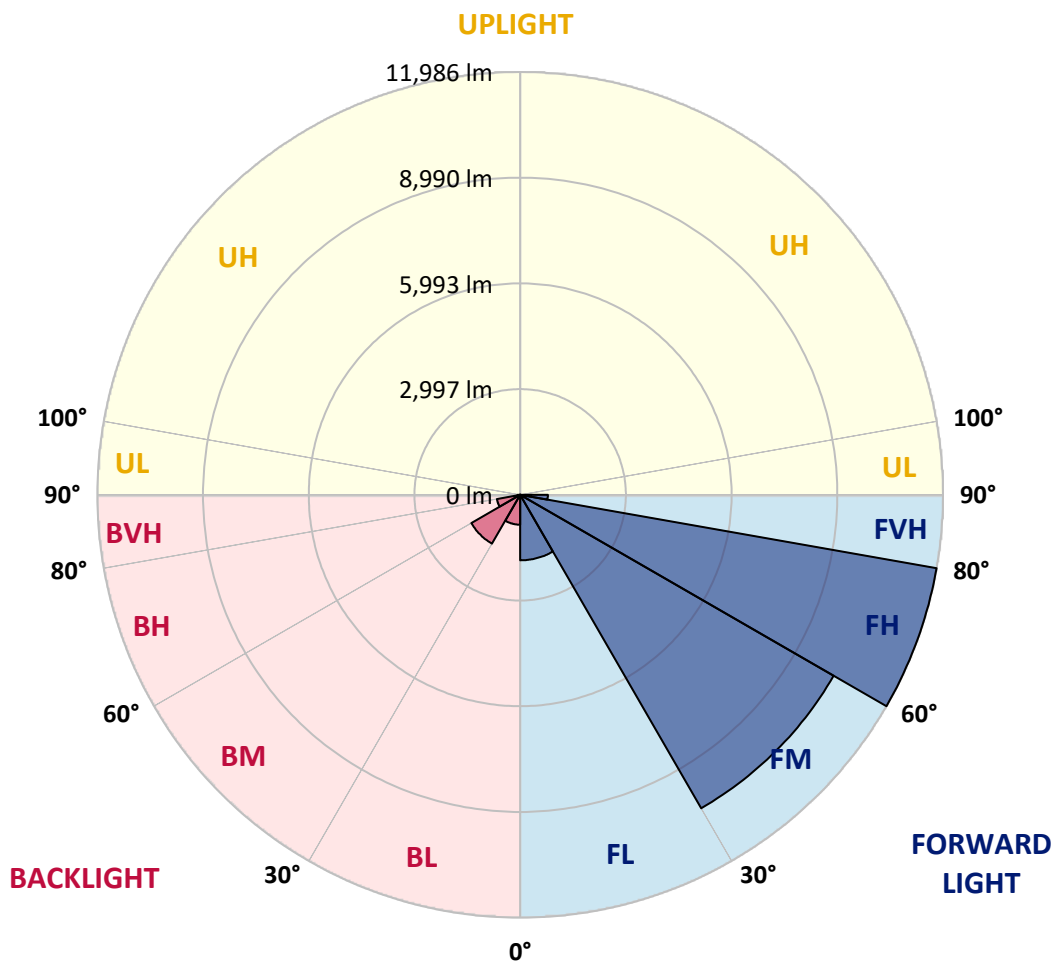
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1857.1	6.6			
FM (30°-60°)	10260.1	36.5			
FH (60°-80°)	11986.3	42.7			G4/12000
FVH (80°-90°)	784.7	2.8			G5
BL (0°-30°)	847.3	3.0	B2/1000		
BM (30°-60°)	1598.3	5.7	B2/2500		
BH (60°-80°)	670.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	77.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3
2.5°	4346.1	4344.7	4333.2	4324.7	4317.6	4314.6	4320.4	4299.0	4280.5	4257.5	4233.4
5°	4313.3	4311.9	4293.3	4276.1	4259.0	4253.4	4251.9	4213.3	4190.6	4156.2	4110.6
7.5°	4277.5	4270.5	4246.2	4217.6	4187.5	4173.3	4159.2	4109.0	4083.4	4049.1	3996.3
10°	4240.4	4231.8	4209.1	4180.5	4152.0	4130.5	4106.2	4057.7	4030.5	4004.9	3943.5
12.5°	4201.9	4194.7	4189.1	4176.2	4156.2	4137.7	4119.1	4077.6	4049.1	4019.1	3947.8
15°	4196.3	4193.4	4206.3	4214.8	4203.3	4191.9	4171.9	4136.2	4106.2	4076.2	3983.4
17.5°	4241.8	4240.4	4273.2	4296.1	4290.5	4270.5	4243.4	4203.3	4179.1	4153.4	4037.7
20°	4341.9	4349.0	4388.9	4418.9	4390.3	4361.8	4317.6	4261.9	4249.1	4237.7	4093.3
22.5°	4530.3	4537.3	4565.9	4577.5	4503.2	4461.7	4400.3	4329.0	4320.4	4329.0	4160.5
25°	4824.3	4817.3	4812.9	4770.2	4634.5	4570.2	4491.7	4417.5	4421.7	4460.4	4254.7
27.5°	5214.2	5175.7	5115.7	4987.2	4771.5	4700.2	4604.5	4536.0	4563.1	4637.4	4396.0
30°	5618.3	5575.4	5436.9	5227.1	4951.5	4872.9	4765.9	4688.8	4760.2	4877.3	4584.6
32.5°	5992.4	5986.7	5783.8	5514.1	5199.8	5131.4	5024.3	4937.3	5052.8	5231.3	4867.2
35°	6400.7	6413.4	6170.7	5846.7	5535.4	5464.1	5387.0	5321.3	5475.4	5721.0	5277.1
37.5°	6837.5	6863.3	6576.3	6210.8	5918.0	5888.1	5842.3	5813.9	6052.3	6392.1	5849.6
40°	7421.4	7395.8	6997.4	6621.9	6387.8	6386.4	6372.0	6406.4	6803.4	7268.7	6584.8
42.5°	8046.8	7971.2	7444.3	7063.2	6903.2	6951.9	6980.3	7120.2	7707.1	8333.8	7481.4
45°	8720.7	8550.8	7908.4	7530.0	7475.8	7578.6	7675.7	7979.7	8770.7	9546.0	8463.8
47.5°	9259.1	9094.9	8388.2	8019.8	8138.3	8294.0	8480.9	8962.1	9961.6	10798.2	9433.2
50°	9683.1	9576.0	8872.1	8590.9	8867.9	9107.7	9413.2	10074.3	11200.8	12017.4	10331.2
52.5°	10094.3	10014.3	9360.3	9176.2	9724.5	10055.7	10471.3	11267.9	12471.4	13216.9	11086.6
55°	10465.6	10408.4	9885.8	9905.8	10732.5	11163.6	11686.2	12627.1	13856.4	14286.3	11726.2
57.5°	10883.9	10811.0	10485.5	10821.1	12027.4	12587.2	13266.8	14154.9	15155.8	15237.1	12213.0
60°	11305.0	11242.2	11150.8	11877.6	13672.3	14260.6	14904.5	15635.4	16473.6	15975.3	12184.5
62.5°	11670.5	11677.6	11839.0	12986.9	15282.8	15963.8	16749.1	17471.6	17665.7	16103.7	11283.6
65°	12290.3	12403.0	12884.1	14557.6	17550.0	18461.0	19424.7	19309.1	17995.6	14903.1	9351.9
67.5°	13027.0	13225.3	14200.5	16650.7	20415.6	21624.9	21997.5	19724.5	16674.9	12114.6	6666.2
70°	12952.8	13225.3	14768.9	18211.1	22777.2	23588.1	22457.3	17851.4	13241.0	7914.1	3540.8
72.5°	11502.1	11891.9	13610.8	17495.7	22033.3	21961.9	19496.2	13308.2	7866.9	3178.3	1383.5
75°	8766.5	9160.6	10639.7	13822.2	17414.5	16814.7	13833.5	7351.5	2985.4	1262.2	872.3
77.5°	5042.8	5348.4	6490.7	8476.6	11048.1	10432.6	7699.9	3269.7	1453.5	879.5	681.0
80°	2815.6	2985.4	3679.4	4300.5	5414.1	4962.9	3445.2	2031.6	1085.2	638.2	525.4
82.5°	2225.9	2377.3	2975.5	2712.7	2472.9	2281.5	1978.8	1808.9	866.7	402.6	314.0
85°	1944.7	2088.7	2518.6	2135.9	1689.1	1549.1	1607.6	1780.4	673.9	242.7	268.5
87.5°	1801.8	1994.5	2244.4	1646.2	1314.9	1165.0	1483.5	1951.7	217.0	151.4	108.5
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°	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3	4263.3
2.5°	4212.0	4189.1	4152.0	4119.1	4067.7	4040.5	4010.7	3989.2	3972.0	3957.8	3980.6
5°	4082.0	4039.1	3960.5	3876.4	3776.5	3698.0	3632.2	3570.9	3528.1	3499.4	3519.4
7.5°	3959.2	3889.2	3766.5	3613.7	3442.3	3296.7	3176.8	3071.1	2998.4	2951.2	2969.7
10°	3889.2	3802.2	3612.3	3372.3	3119.6	2892.6	2704.2	2541.5	2428.7	2364.3	2374.4
12.5°	3872.1	3759.2	3496.7	3166.7	2821.2	2505.7	2240.2	2014.5	1856.1	1773.3	1776.2
15°	3884.9	3740.7	3388.0	2969.7	2532.9	2134.6	1803.3	1529.2	1344.9	1250.7	1249.4
17.5°	3906.4	3726.4	3273.9	2757.0	2240.2	1777.6	1407.7	1139.4	976.5	900.9	895.3
20°	3929.1	3703.6	3145.3	2527.1	1936.0	1446.4	1102.2	892.3	789.6	748.2	745.4
22.5°	3962.1	3683.6	3012.6	2284.4	1637.6	1177.9	906.6	765.3	711.0	689.5	686.8
25°	4014.9	3673.7	2871.3	2031.6	1369.2	985.1	789.6	702.5	671.0	656.8	655.4
27.5°	4103.4	3687.9	2738.5	1786.1	1150.8	855.2	723.9	671.0	648.1	635.3	633.9
30°	4217.6	3732.2	2598.5	1553.3	980.9	766.8	683.9	649.7	631.1	618.3	618.3
32.5°	4407.5	3806.4	2451.5	1352.0	859.5	705.3	654.0	631.1	615.3	605.4	603.9
35°	4687.4	3946.3	2314.5	1185.0	772.5	661.1	628.3	611.0	599.7	594.0	594.0
37.5°	5094.3	4167.6	2193.0	1065.1	719.6	631.1	603.9	591.1	584.0	584.0	584.0
40°	5641.0	4473.2	2094.6	985.1	689.5	609.7	585.3	575.4	571.1	572.5	572.5
42.5°	6316.4	4870.2	2028.8	929.4	675.3	596.8	572.5	564.0	559.6	558.2	559.6
45°	7086.0	5321.3	2021.7	888.1	661.1	588.2	564.0	555.4	546.9	541.0	541.0
47.5°	7834.2	5779.5	2080.3	873.8	645.3	578.2	556.8	548.2	535.4	522.5	522.5
50°	8495.2	6169.4	2158.7	879.5	639.7	564.0	545.5	541.0	521.1	506.9	505.4
52.5°	9020.6	6469.2	2223.0	896.7	645.3	554.0	531.1	532.5	511.1	495.4	494.0
55°	9441.8	6666.2	2205.9	913.8	658.2	548.2	518.3	521.1	503.9	488.3	488.3
57.5°	9626.0	6593.4	2015.9	899.6	668.2	549.8	508.4	519.7	505.4	491.2	491.2
60°	9230.5	5946.6	1660.4	836.7	655.4	545.5	503.9	525.4	524.0	509.7	508.4
62.5°	8034.0	4788.8	1287.8	743.8	611.0	524.0	492.6	524.0	539.7	535.4	534.0
65°	6192.1	3411.0	983.7	643.9	551.1	488.3	462.5	491.2	512.6	518.3	516.9
67.5°	4019.1	2090.3	758.1	549.8	483.9	446.8	424.0	436.8	441.2	441.2	438.4
70°	1976.0	1125.0	603.9	462.5	415.5	402.6	389.8	382.7	375.5	369.8	369.8
72.5°	975.2	735.4	496.9	391.2	358.3	352.7	349.8	341.3	335.5	328.4	325.5
75°	721.0	598.2	422.7	329.8	308.4	302.6	308.4	301.2	299.9	294.1	291.3
77.5°	592.5	509.7	364.1	282.6	264.1	254.1	262.8	264.1	265.5	256.9	254.1
80°	481.1	431.1	304.2	234.2	217.0	209.8	215.7	227.0	229.8	217.0	211.3
82.5°	346.9	352.7	245.5	182.7	168.5	162.8	174.2	188.5	191.2	172.7	168.5
85°	291.3	294.1	188.5	130.0	115.6	107.1	125.7	140.0	149.8	131.3	127.1
87.5°	121.4	172.7	108.5	72.9	64.3	55.7	67.2	74.2	89.9	82.9	81.3
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)