

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: P193786

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193786  
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-08-LED-E1-SL4-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 29885 lumens  
Efficiency: N/A  
Efficacy: 89.5 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): 334  
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

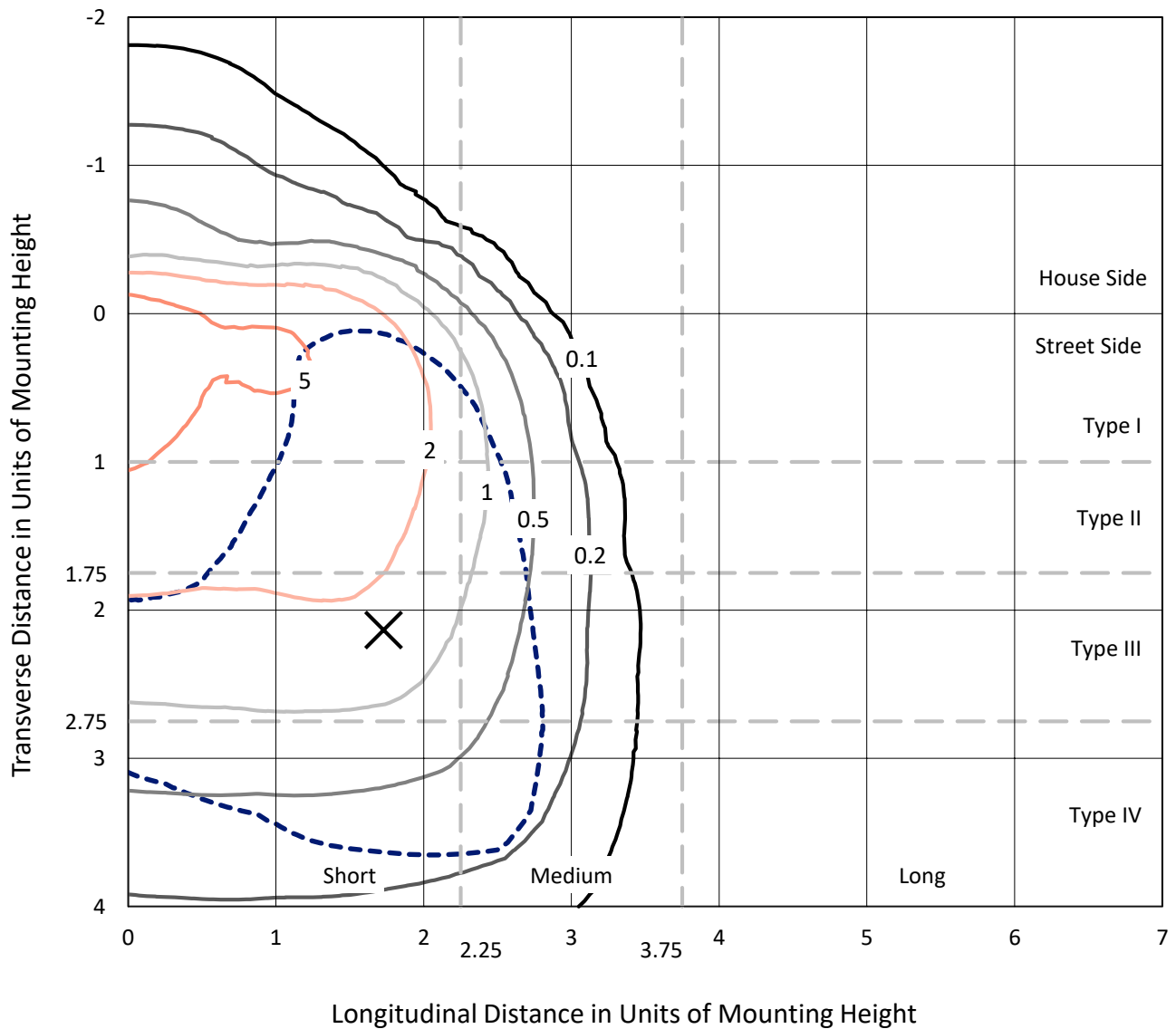


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### Iso-Footcandle Lines of Horizontal Illumination

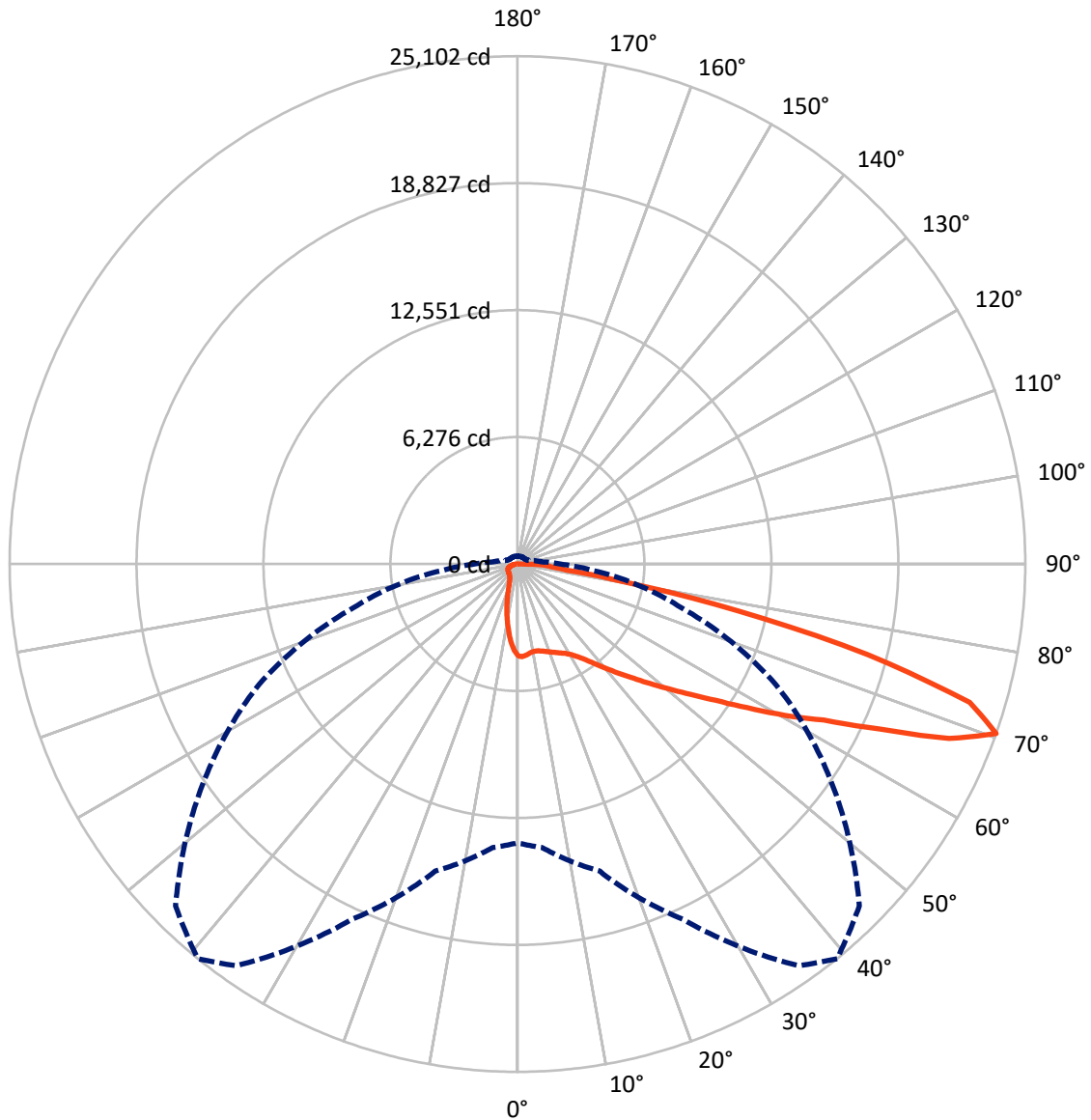
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3398.9	0.0	3398.9
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	26486.1	0.0	26486.1
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	29885.0	0.0	29885.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.4	1.3
10°-20°	973.3	3.3
20°-30°	1515.4	5.1
30°-40°	2360.7	7.9
40°-50°	3963.2	13.3
50°-60°	6295.9	21.1
60°-70°	8398.0	28.1
70°-80°	5071.4	17.0
80°-90°	917.9	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°	29885.0	100.0
0°-180°	29885.0	100.0

**Coefficient of Utilization**



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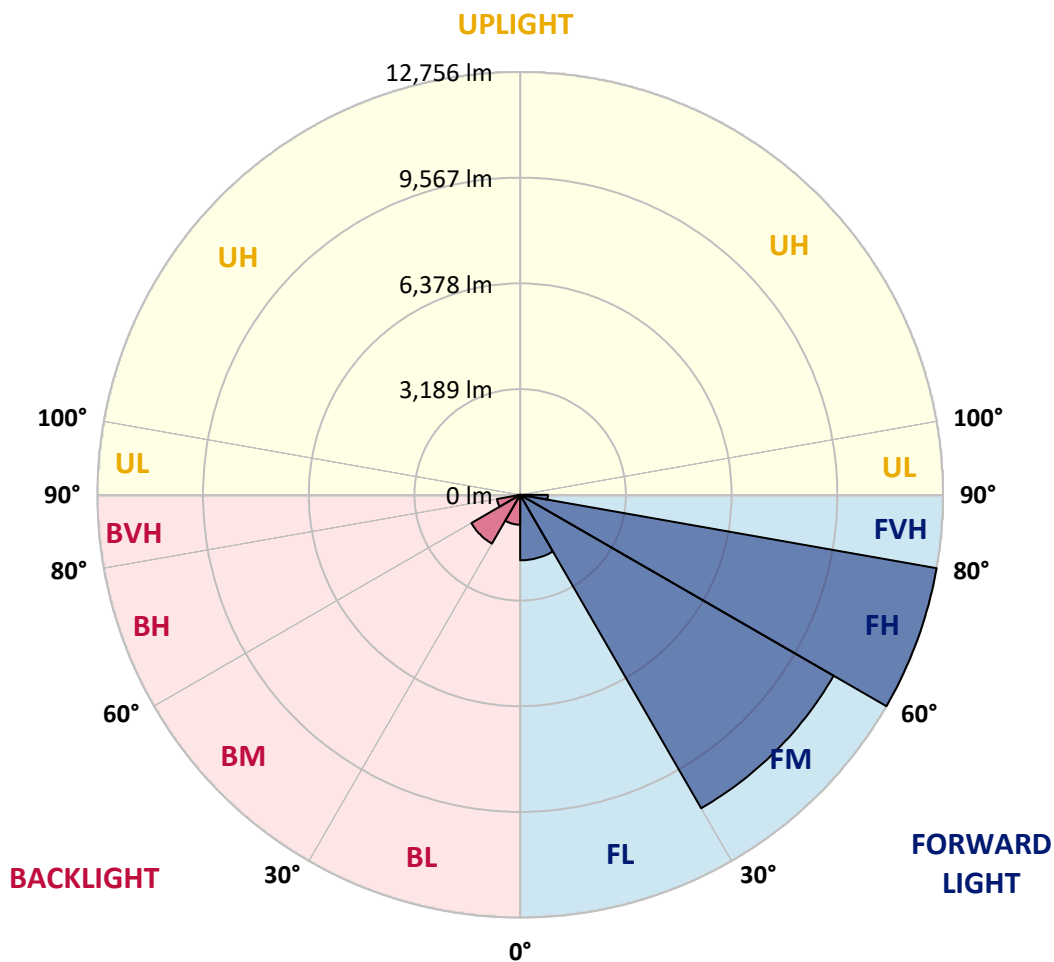
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1976.3	6.6			
FM	(30°-60°)	10918.8	36.5			
FH	(60°-80°)	12755.8	42.7			G5
FVH	(80°-90°)	835.1	2.8			G5
BL	(0°-30°)	901.7	3.0	B2/1000		
BM	(30°-60°)	1701.0	5.7	B2/2500		
BH	(60°-80°)	713.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	82.7	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°	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0
2.5°	4625.1	4623.6	4611.5	4602.3	4594.7	4591.7	4597.8	4575.0	4555.2	4530.9	4505.1
5°	4590.2	4588.7	4568.9	4550.7	4532.4	4526.4	4524.9	4483.8	4459.5	4423.0	4374.4
7.5°	4552.2	4544.6	4518.8	4488.4	4456.5	4441.3	4426.1	4372.9	4345.6	4309.1	4252.9
10°	4512.7	4503.6	4479.3	4448.9	4418.5	4395.7	4369.9	4318.2	4289.3	4262.0	4196.7
12.5°	4471.7	4464.1	4458.0	4444.3	4423.0	4403.3	4383.5	4339.5	4309.1	4277.2	4201.2
15°	4465.6	4462.6	4476.2	4485.3	4473.2	4461.0	4439.8	4401.8	4369.9	4338.0	4239.2
17.5°	4514.2	4512.7	4547.6	4572.0	4565.9	4544.6	4515.7	4473.2	4447.4	4420.0	4296.9
20°	4620.6	4628.2	4670.7	4702.6	4672.2	4641.8	4594.7	4535.5	4521.8	4509.7	4356.2
22.5°	4821.1	4828.7	4859.1	4871.3	4792.3	4748.2	4682.9	4606.9	4597.8	4606.9	4427.6
25°	5134.1	5126.5	5122.0	5076.4	4932.1	4863.7	4780.1	4701.1	4705.7	4746.7	4527.9
27.5°	5548.9	5507.9	5444.1	5307.4	5077.9	5002.0	4900.1	4827.2	4856.1	4935.1	4678.3
30°	5978.9	5933.4	5786.0	5562.6	5269.4	5185.8	5071.8	4989.8	5065.8	5190.4	4878.9
32.5°	6377.0	6371.0	6155.2	5868.0	5533.7	5460.8	5346.9	5254.2	5377.2	5567.2	5179.7
35°	6811.6	6825.3	6567.0	6222.0	5890.8	5814.8	5732.8	5662.9	5827.0	6088.3	5615.8
37.5°	7276.5	7303.9	6998.5	6609.5	6298.0	6266.1	6217.5	6187.1	6440.8	6802.5	6225.1
40°	7898.0	7870.6	7446.7	7047.1	6797.9	6796.4	6781.2	6817.7	7240.1	7735.4	7007.6
42.5°	8563.5	8483.0	7922.3	7516.6	7346.4	7398.1	7428.5	7577.4	8201.9	8868.9	7961.8
45°	9280.7	9099.8	8416.1	8013.5	7955.7	8065.1	8168.4	8492.1	9333.8	10158.9	9007.2
47.5°	9853.5	9678.7	8926.6	8534.6	8660.7	8826.3	9025.4	9537.4	10601.0	11491.4	10038.8
50°	10304.7	10190.8	9441.7	9142.4	9437.2	9692.4	10017.6	10721.1	11919.9	12789.0	10994.6
52.5°	10742.3	10657.3	9961.4	9765.4	10348.8	10701.3	11143.5	11991.3	13272.2	14065.3	11798.3
55°	11137.4	11076.6	10520.5	10541.8	11421.5	11880.4	12436.5	13437.8	14746.0	15203.4	12479.0
57.5°	11582.6	11505.1	11158.7	11515.7	12799.6	13395.3	14118.5	15063.6	16128.7	16215.3	12997.2
60°	12030.8	11964.0	11866.7	12640.1	14550.0	15176.0	15861.3	16639.2	17531.1	17000.9	12966.8
62.5°	12419.8	12427.4	12599.1	13820.7	16263.9	16988.7	17824.4	18593.2	18799.9	17137.6	12008.0
65°	13079.2	13199.3	13711.3	15492.1	18676.8	19646.2	20671.8	20548.7	19150.8	15859.8	9952.2
67.5°	13863.2	14074.4	15112.2	17719.5	21726.3	23013.2	23409.8	20990.9	17745.4	12892.3	7094.2
70°	13784.2	14074.4	15716.9	19380.3	24239.4	25102.4	23899.1	18997.4	14091.2	8422.2	3768.2
72.5°	12240.5	12655.3	14484.7	18619.0	23447.8	23371.8	20747.8	14162.6	8372.0	3382.2	1472.3
75°	9329.3	9748.6	11322.8	14709.6	18532.4	17894.3	14721.7	7823.5	3177.1	1343.2	928.4
77.5°	5366.6	5691.8	6907.3	9020.8	11757.3	11102.4	8194.3	3479.5	1546.8	936.0	724.8
80°	2996.3	3177.1	3915.6	4576.5	5761.7	5281.5	3666.4	2162.1	1154.8	679.2	559.1
82.5°	2368.8	2529.8	3166.5	2886.9	2631.6	2428.0	2105.9	1925.1	922.3	428.5	334.3
85°	2069.5	2222.9	2680.3	2273.1	1797.5	1648.6	1710.9	1894.7	717.2	258.3	285.7
87.5°	1917.5	2122.6	2388.5	1751.9	1399.4	1239.9	1578.7	2077.1	231.0	161.1	115.5
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°	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0	4537.0
2.5°	4482.3	4458.0	4418.5	4383.5	4328.8	4300.0	4268.1	4245.3	4227.0	4211.8	4236.2
5°	4344.0	4298.5	4214.9	4125.2	4018.9	3935.3	3865.4	3800.1	3754.5	3724.1	3745.4
7.5°	4213.4	4138.9	4008.2	3845.7	3663.3	3508.4	3380.7	3268.3	3190.8	3140.7	3160.4
10°	4138.9	4046.2	3844.1	3588.9	3319.9	3078.4	2877.8	2704.6	2584.5	2516.2	2526.8
12.5°	4120.7	4000.6	3721.1	3370.1	3002.4	2666.6	2384.0	2143.9	1975.3	1887.1	1890.2
15°	4134.4	3980.9	3605.6	3160.4	2695.5	2271.5	1919.0	1627.3	1431.3	1331.0	1329.5
17.5°	4157.1	3965.7	3484.0	2934.0	2384.0	1891.7	1498.2	1212.5	1039.3	958.8	952.7
20°	4181.5	3941.4	3347.3	2689.4	2060.3	1539.2	1173.0	949.6	840.2	796.2	793.1
22.5°	4216.4	3920.1	3206.0	2431.1	1742.8	1253.5	964.8	814.4	756.7	733.9	730.8
25°	4272.6	3909.5	3055.6	2162.1	1457.1	1048.4	840.2	747.6	714.1	698.9	697.4
27.5°	4366.8	3924.7	2914.3	1900.8	1224.7	910.1	770.3	714.1	689.8	676.1	674.6
30°	4488.4	3971.8	2765.4	1653.1	1043.8	815.9	727.8	691.3	671.6	657.9	657.9
32.5°	4690.5	4050.8	2608.9	1438.9	914.7	750.6	695.9	671.6	654.9	644.2	642.7
35°	4988.3	4199.7	2463.0	1261.1	822.0	703.5	668.5	650.3	638.2	632.1	632.1
37.5°	5421.3	4435.2	2333.8	1133.5	765.8	671.6	642.7	629.0	621.4	621.4	621.4
40°	6003.3	4760.4	2229.0	1048.4	733.9	648.8	623.0	612.3	607.8	609.3	609.3
42.5°	6721.9	5182.8	2159.1	989.1	718.7	635.1	609.3	600.2	595.6	594.1	595.6
45°	7540.9	5662.9	2151.5	945.1	703.5	626.0	600.2	591.1	581.9	575.9	575.9
47.5°	8337.1	6150.6	2213.8	929.9	686.8	615.4	592.6	583.5	569.8	556.1	556.1
50°	9040.6	6565.4	2297.4	936.0	680.7	600.2	580.4	575.9	554.6	539.4	537.9
52.5°	9599.7	6884.5	2365.7	954.2	686.8	589.5	565.2	566.7	544.0	527.2	525.7
55°	10048.0	7094.2	2347.5	972.4	700.5	583.5	551.6	554.6	536.4	519.6	519.6
57.5°	10244.0	7016.7	2145.4	957.2	711.1	585.0	540.9	553.1	537.9	522.7	522.7
60°	9823.1	6328.4	1767.1	890.4	697.4	580.4	536.4	559.1	557.6	542.4	540.9
62.5°	8549.8	5096.2	1370.5	791.6	650.3	557.6	524.2	557.6	574.3	569.8	568.3
65°	6589.8	3629.9	1046.9	685.3	586.5	519.6	492.3	522.7	545.5	551.6	550.0
67.5°	4277.2	2224.4	806.8	585.0	515.1	475.6	451.3	464.9	469.5	469.5	466.5
70°	2102.9	1197.3	642.7	492.3	442.2	428.5	414.8	407.2	399.6	393.5	393.5
72.5°	1037.8	782.5	528.8	416.3	381.4	375.3	372.3	363.1	357.1	349.5	346.4
75°	767.3	636.6	449.8	351.0	328.2	322.1	328.2	320.6	319.1	313.0	310.0
77.5°	630.6	542.4	387.5	300.8	281.1	270.5	279.6	281.1	282.6	273.5	270.5
80°	512.0	458.9	323.6	249.2	231.0	223.4	229.4	241.6	244.6	231.0	224.9
82.5°	369.2	375.3	261.3	194.5	179.3	173.2	185.4	200.6	203.6	183.9	179.3
85°	310.0	313.0	200.6	138.3	123.1	114.0	133.7	148.9	159.5	139.8	135.2
87.5°	129.2	183.9	115.5	77.5	68.4	59.3	71.4	79.0	95.7	88.1	86.6
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)