

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: P193794

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193794  
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-06-LED-E1-SL4-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA 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: 27604 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

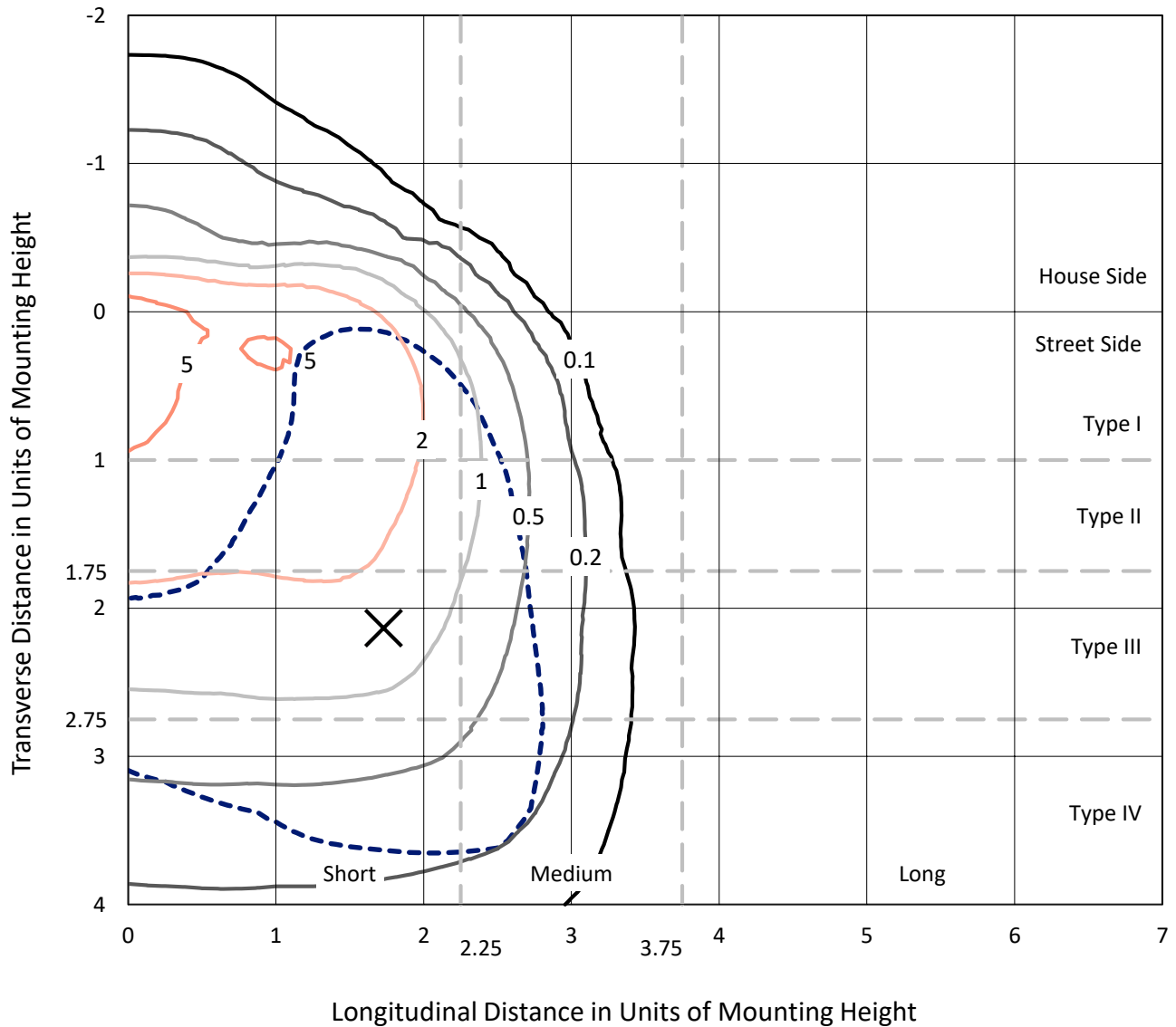
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

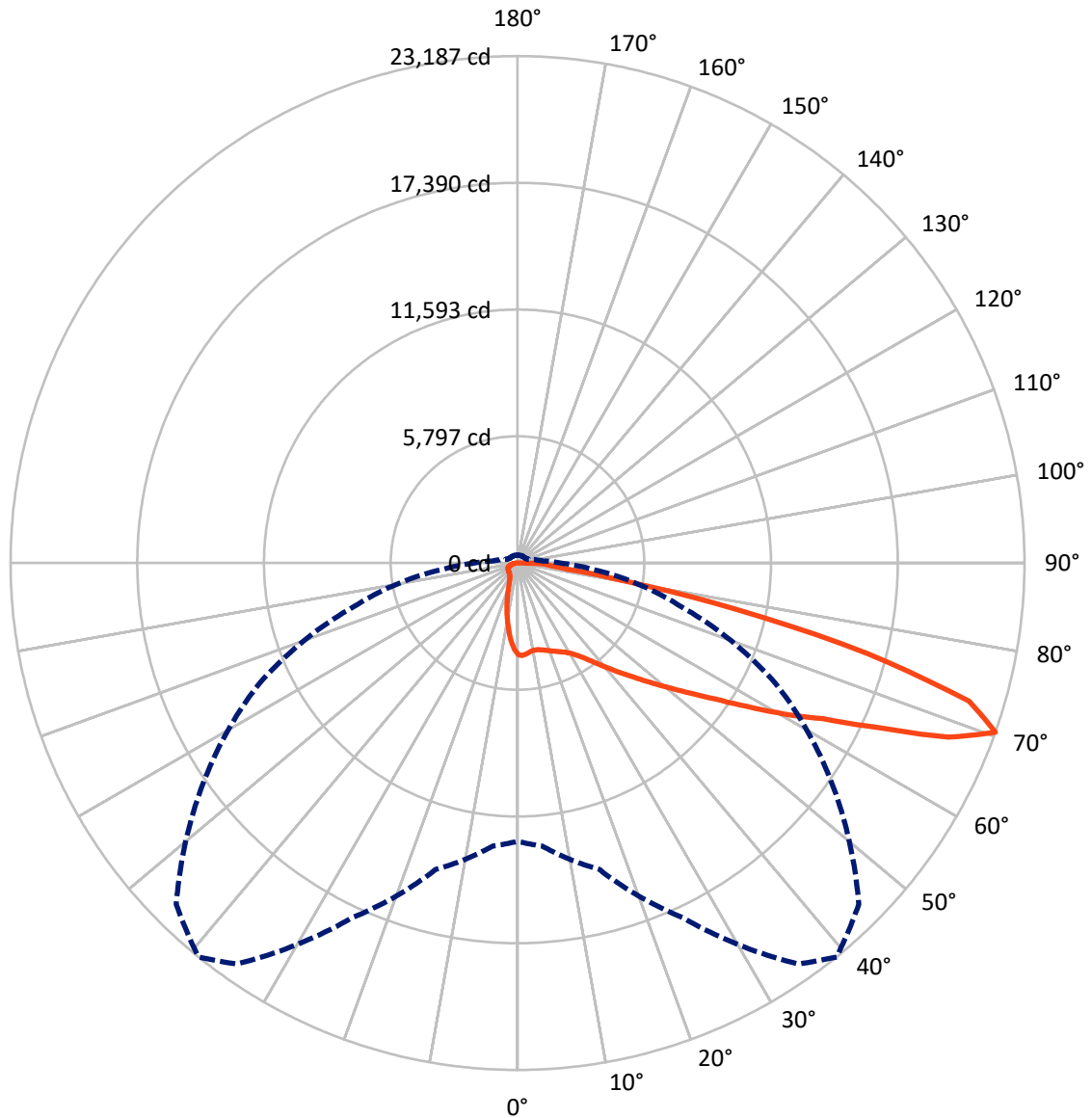
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3139.5	0.0	3139.5
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	24464.5	0.0	24464.5
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	27604.0	0.0	27604.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.6	1.3
10°-20°	899.0	3.3
20°-30°	1399.7	5.1
30°-40°	2180.5	7.9
40°-50°	3660.7	13.3
50°-60°	5815.3	21.1
60°-70°	7757.0	28.1
70°-80°	4684.3	17.0
80°-90°	847.8	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°	27604.0	100.0
0°-180°	27604.0	100.0



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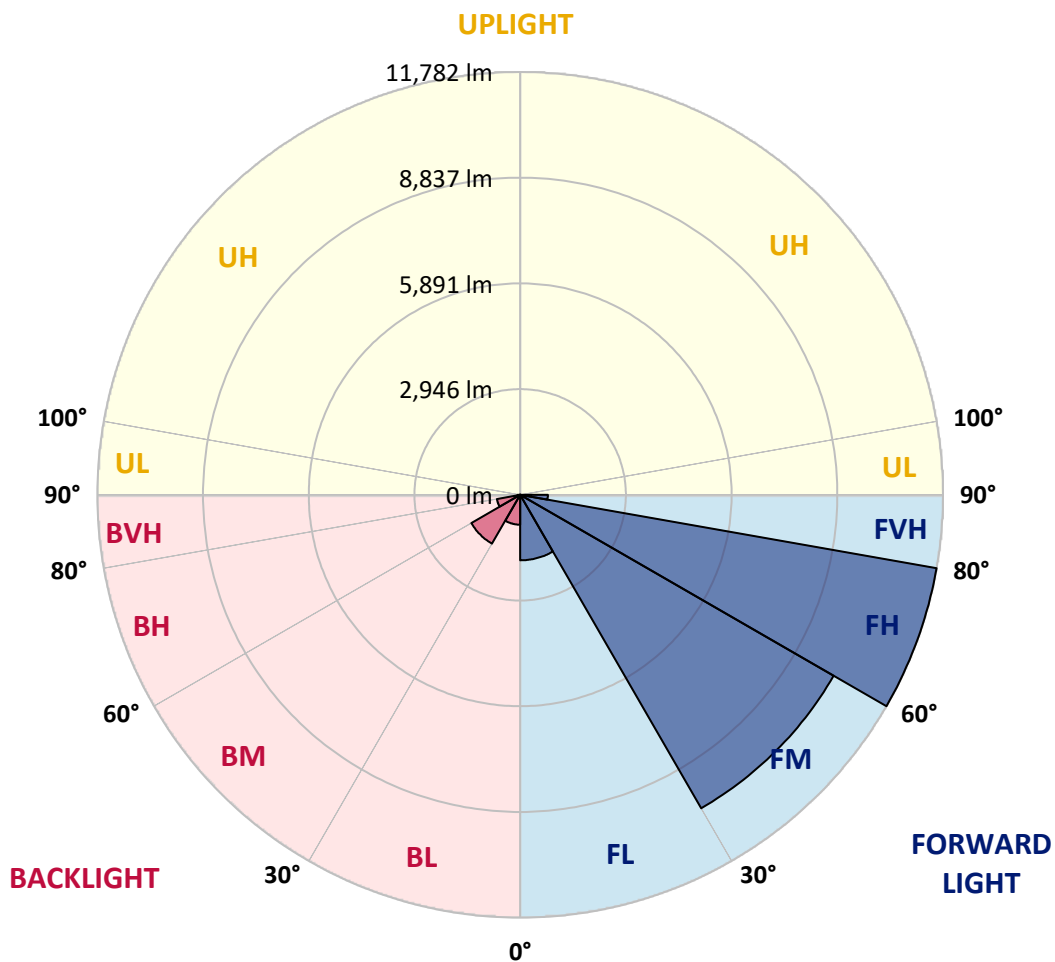
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.5	6.6			
FM	(30°-60°)	10085.4	36.5			
FH	(60°-80°)	11782.2	42.7			G4/12000
FVH	(80°-90°)	771.4	2.8			G5
BL	(0°-30°)	832.9	3.0	B2/1000		
BM	(30°-60°)	1571.1	5.7	B2/2500		
BH	(60°-80°)	659.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	76.4	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°	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7
2.5°	4272.1	4270.7	4259.5	4251.1	4244.0	4241.2	4246.9	4225.8	4207.6	4185.1	4161.2
5°	4239.8	4238.4	4220.2	4203.3	4186.5	4180.9	4179.5	4141.6	4119.1	4085.5	4040.5
7.5°	4204.7	4197.7	4173.9	4145.8	4116.3	4102.3	4088.3	4039.1	4013.9	3980.2	3928.3
10°	4168.3	4159.8	4137.4	4109.3	4081.2	4060.2	4036.3	3988.6	3962.0	3936.7	3876.3
12.5°	4130.4	4123.3	4117.7	4105.1	4085.5	4067.2	4049.0	4008.3	3980.2	3950.7	3880.6
15°	4124.8	4121.9	4134.6	4143.0	4131.8	4120.5	4100.9	4065.8	4036.3	4006.9	3915.6
17.5°	4169.7	4168.3	4200.5	4223.0	4217.4	4197.7	4171.1	4131.8	4107.9	4082.6	3969.0
20°	4267.9	4274.9	4314.2	4343.7	4315.6	4287.6	4244.0	4189.3	4176.7	4165.5	4023.7
22.5°	4453.2	4460.2	4488.2	4499.5	4426.5	4385.8	4325.4	4255.3	4246.9	4255.3	4089.7
25°	4742.3	4735.3	4731.0	4688.9	4555.6	4492.5	4415.3	4342.3	4346.5	4384.4	4182.3
27.5°	5125.4	5087.5	5028.6	4902.3	4690.3	4620.2	4526.1	4458.8	4485.4	4558.4	4321.2
30°	5522.6	5480.5	5344.4	5138.0	4867.2	4790.0	4684.7	4608.9	4679.1	4794.2	4506.5
32.5°	5890.3	5884.7	5685.4	5420.1	5111.4	5044.0	4938.8	4853.1	4966.8	5142.3	4784.4
35°	6291.7	6304.3	6065.7	5747.1	5441.2	5371.0	5295.2	5230.7	5382.2	5623.6	5187.2
37.5°	6721.1	6746.4	6464.3	6105.0	5817.3	5787.8	5742.9	5714.9	5949.2	6283.3	5750.0
40°	7295.2	7269.9	6878.3	6509.2	6279.1	6277.7	6263.6	6297.3	6687.5	7145.0	6472.7
42.5°	7909.9	7835.5	7317.6	6942.9	6785.7	6833.4	6861.5	6999.0	7575.8	8192.0	7354.1
45°	8572.3	8405.3	7773.7	7401.8	7348.5	7449.5	7545.0	7843.9	8621.4	9383.5	8319.7
47.5°	9101.4	8940.0	8245.3	7883.2	7999.7	8152.7	8336.5	8809.5	9791.9	10614.3	9272.6
50°	9518.2	9413.0	8721.1	8444.6	8716.9	8952.6	9253.0	9902.8	11010.1	11812.9	10155.4
52.5°	9922.4	9843.8	9201.0	9020.0	9558.9	9884.5	10292.9	11076.1	12259.2	12991.8	10897.8
55°	10287.3	10231.2	9717.5	9737.2	10549.8	10973.6	11487.3	12412.2	13620.5	14043.0	11526.6
57.5°	10698.5	10627.0	10307.0	10636.8	11822.7	12372.9	13040.9	13913.8	14897.7	14977.7	12005.1
60°	11112.6	11050.8	10961.0	11675.3	13439.5	14017.7	14650.7	15369.2	16193.1	15703.3	11977.1
62.5°	11471.8	11478.9	11637.4	12765.8	15022.6	15692.0	16463.9	17174.1	17364.9	15829.6	11091.5
65°	12080.9	12191.8	12664.8	14309.6	17251.3	18146.7	19094.0	18980.3	17689.1	14649.3	9192.6
67.5°	12805.1	13000.2	13958.8	16367.1	20068.0	21256.7	21623.0	19388.7	16390.9	11908.3	6552.7
70°	12732.1	13000.2	14517.3	17901.1	22389.3	23186.5	22074.9	17547.4	13015.6	7779.3	3480.6
72.5°	11306.2	11689.4	13379.1	17197.9	21658.1	21587.9	19164.2	13081.6	7733.0	3124.1	1359.9
75°	8617.2	9004.6	10458.5	13586.8	17117.9	16528.5	13598.1	7226.4	2934.6	1240.7	857.5
77.5°	4957.0	5257.3	6380.1	8332.3	10859.9	10255.0	7568.8	3213.9	1428.7	864.5	669.4
80°	2767.6	2934.6	3616.7	4227.2	5321.9	4878.4	3386.5	1997.1	1066.6	627.3	516.5
82.5°	2188.0	2336.8	2924.8	2666.6	2430.8	2242.7	1945.2	1778.2	851.9	395.8	308.8
85°	1911.5	2053.3	2475.7	2099.6	1660.3	1522.7	1580.3	1750.1	662.4	238.6	263.8
87.5°	1771.2	1960.6	2206.2	1618.2	1292.6	1145.2	1458.2	1918.5	213.3	148.8	106.7
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°	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7	4190.7
2.5°	4140.2	4117.7	4081.2	4049.0	3998.4	3971.8	3942.3	3921.3	3904.4	3890.4	3912.8
5°	4012.5	3970.4	3893.2	3810.4	3712.1	3634.9	3570.4	3510.0	3467.9	3439.9	3459.5
7.5°	3891.8	3823.0	3702.3	3552.1	3383.7	3240.6	3122.7	3018.8	2947.3	2900.9	2919.2
10°	3823.0	3737.4	3550.7	3315.0	3066.5	2843.4	2658.1	2498.1	2387.3	2324.1	2333.9
12.5°	3806.2	3695.3	3437.1	3112.9	2773.2	2463.1	2202.0	1980.3	1824.5	1743.1	1745.9
15°	3818.8	3677.1	3330.4	2919.2	2489.7	2098.2	1772.6	1503.1	1322.1	1229.4	1228.0
17.5°	3839.9	3663.0	3218.1	2710.1	2202.0	1747.3	1383.8	1120.0	960.0	885.6	880.0
20°	3862.3	3640.6	3091.8	2484.1	1903.1	1421.7	1083.5	877.2	776.1	735.4	732.6
22.5°	3894.6	3620.9	2961.3	2245.5	1609.8	1157.8	891.2	752.3	698.9	677.9	675.1
25°	3946.5	3611.1	2822.3	1997.1	1345.9	968.4	776.1	690.5	659.6	645.6	644.2
27.5°	4033.5	3625.1	2691.8	1755.7	1131.2	840.7	711.6	659.6	637.2	624.5	623.1
30°	4145.8	3668.6	2554.3	1527.0	964.2	753.7	672.3	638.6	620.3	607.7	607.7
32.5°	4332.5	3741.6	2409.7	1329.1	844.9	693.3	642.8	620.3	604.9	595.1	593.7
35°	4607.5	3879.1	2275.0	1164.9	759.3	649.8	617.5	600.7	589.5	583.8	583.8
37.5°	5007.5	4096.7	2155.7	1047.0	707.3	620.3	593.7	581.0	574.0	574.0	574.0
40°	5545.0	4397.0	2058.9	968.4	677.9	599.3	575.4	565.6	561.4	562.8	562.8
42.5°	6208.9	4787.2	1994.3	913.6	663.8	586.6	562.8	554.4	550.2	548.8	550.2
45°	6965.3	5230.7	1987.3	872.9	649.8	578.2	554.4	545.9	537.5	531.9	531.9
47.5°	7700.8	5681.2	2044.8	858.9	634.4	568.4	547.3	538.9	526.3	513.7	513.7
50°	8350.6	6064.3	2122.0	864.5	628.7	554.4	536.1	531.9	512.3	498.2	496.8
52.5°	8867.0	6359.1	2185.2	881.4	634.4	544.5	522.1	523.5	502.4	487.0	485.6
55°	9281.0	6552.7	2168.3	898.2	647.0	538.9	509.5	512.3	495.4	480.0	480.0
57.5°	9462.1	6481.2	1981.7	884.2	656.8	540.3	499.6	510.9	496.8	482.8	482.8
60°	9073.3	5845.4	1632.2	822.4	644.2	536.1	495.4	516.5	515.1	501.0	499.6
62.5°	7897.2	4707.2	1265.9	731.2	600.7	515.1	484.2	515.1	530.5	526.3	524.9
65°	6086.8	3352.9	967.0	633.0	541.7	480.0	454.7	482.8	503.8	509.5	508.1
67.5°	3950.7	2054.7	745.2	540.3	475.8	439.3	416.8	429.5	433.7	433.7	430.9
70°	1942.4	1105.9	593.7	454.7	408.4	395.8	383.1	376.1	369.1	363.5	363.5
72.5°	958.6	722.8	488.4	384.5	352.3	346.7	343.8	335.4	329.8	322.8	320.0
75°	708.7	588.0	415.4	324.2	303.1	297.5	303.1	296.1	294.7	289.1	286.3
77.5°	582.4	501.0	357.9	277.9	259.6	249.8	258.2	259.6	261.0	252.6	249.8
80°	473.0	423.8	298.9	230.2	213.3	206.3	211.9	223.1	226.0	213.3	207.7
82.5°	341.0	346.7	241.4	179.6	165.6	160.0	171.2	185.3	188.1	169.8	165.6
85°	286.3	289.1	185.3	127.7	113.7	105.3	123.5	137.5	147.4	129.1	124.9
87.5°	119.3	169.8	106.7	71.6	63.2	54.7	66.0	73.0	88.4	81.4	80.0
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)