

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: P191083

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24087.4 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

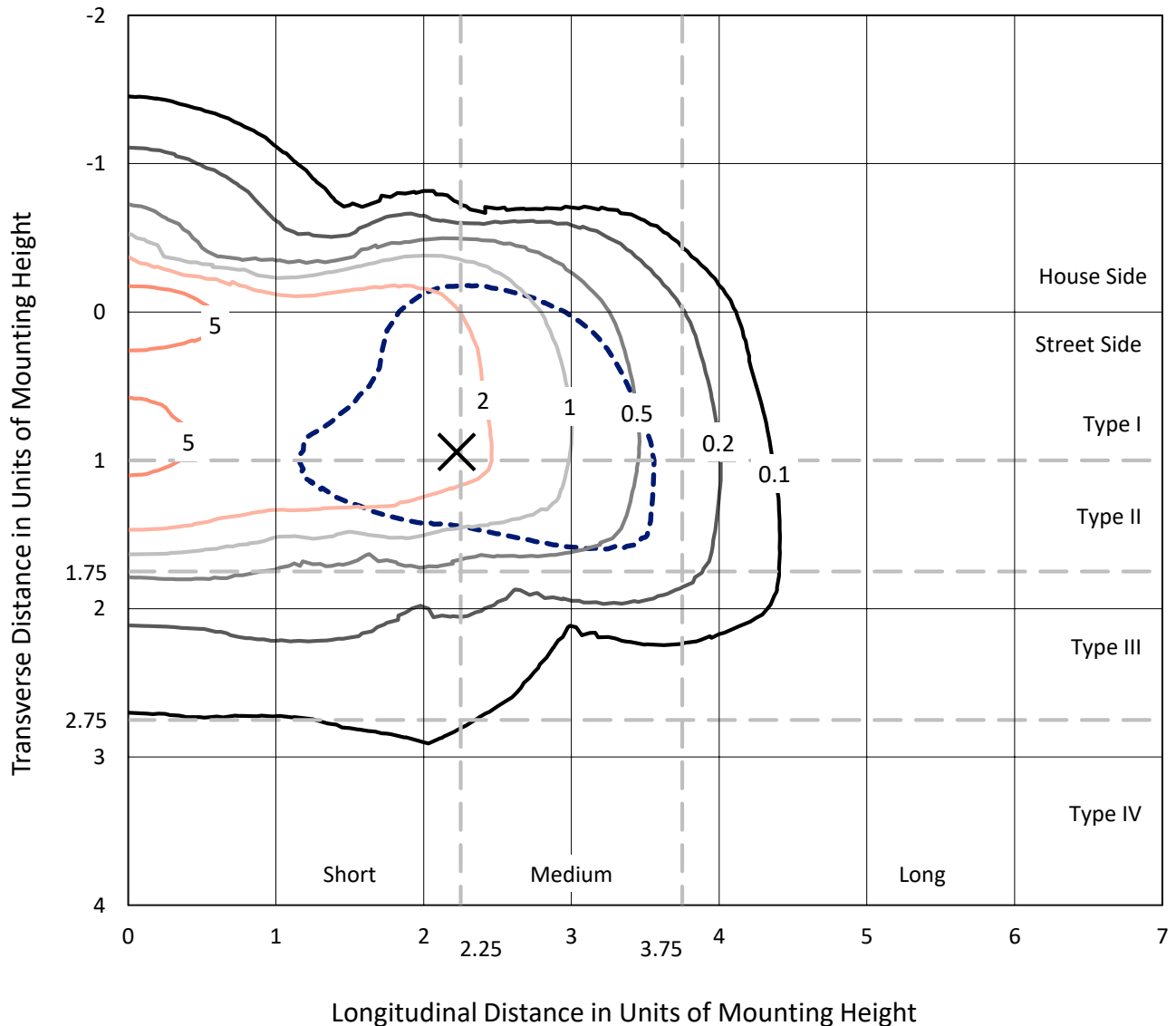
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

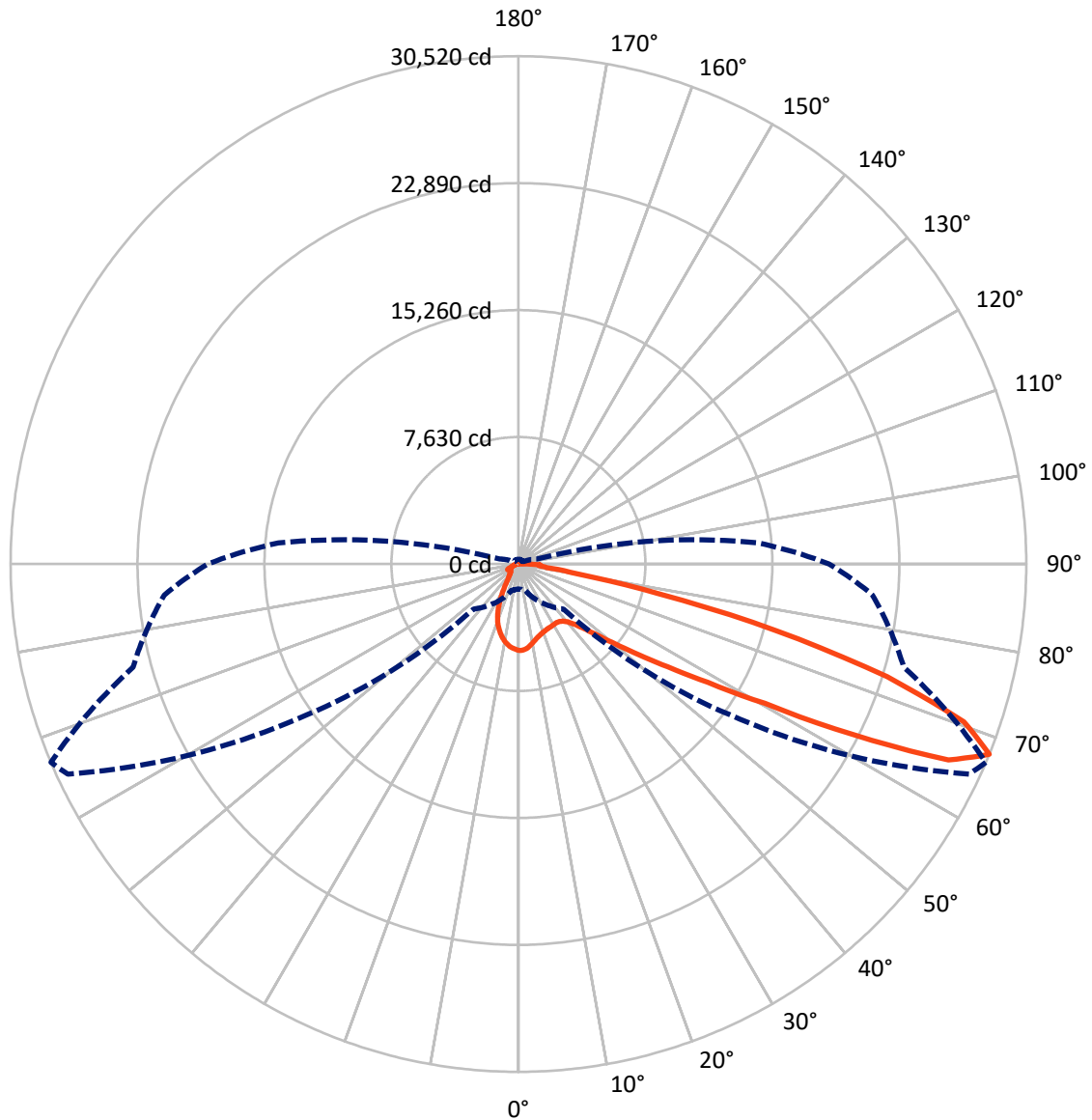
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3991.0	0.0	3991.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	20096.4	0.0	20096.4
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	24087.4	0.0	24087.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.3	1.8
10°-20°	1025.6	4.3
20°-30°	1390.3	5.8
30°-40°	1976.4	8.2
40°-50°	3306.6	13.7
50°-60°	5231.1	21.7
60°-70°	6663.8	27.7
70°-80°	3490.5	14.5
80°-90°	559.8	2.3
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°	24087.4	100.0
0°-180°	24087.4	100.0



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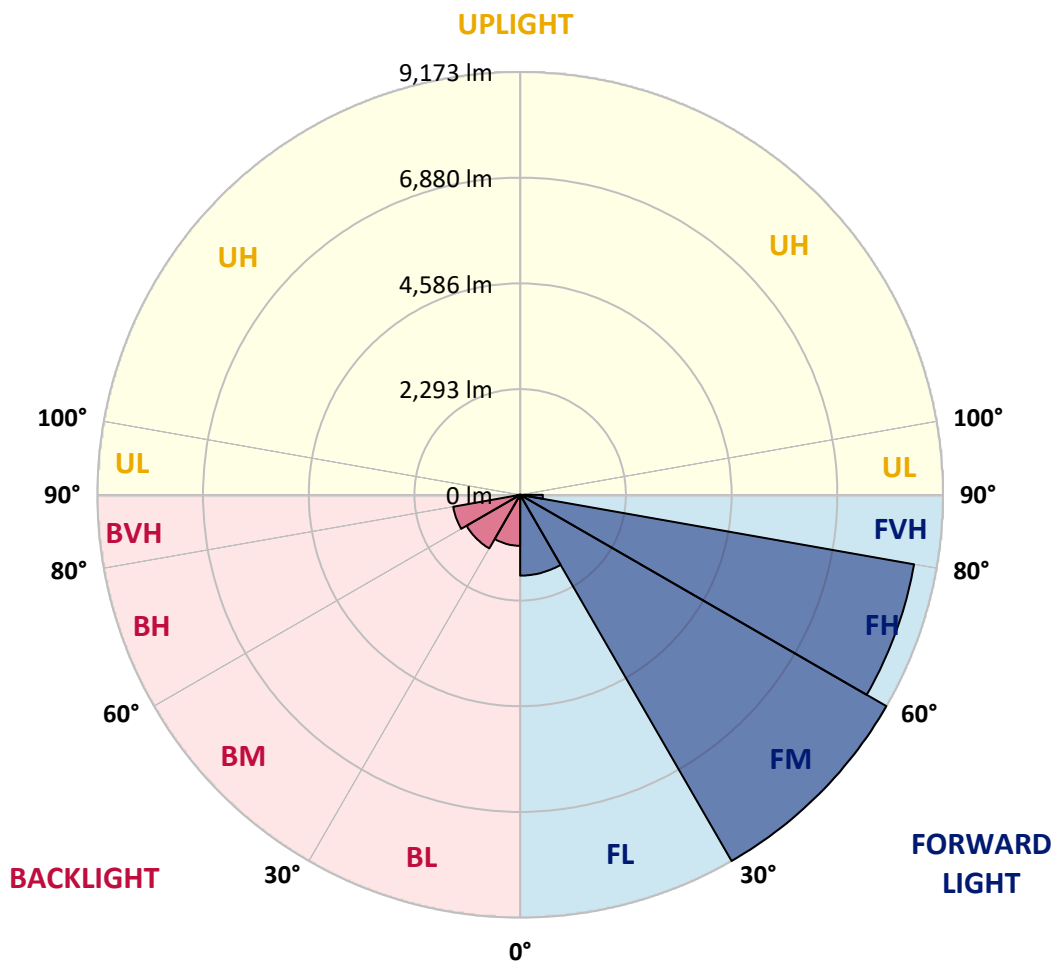
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1753.0	7.3			
FM	(30°-60°)	9173.0	38.1			
FH	(60°-80°)	8678.2	36.0			G4/12000
FVH	(80°-90°)	492.2	2.0			G3/500
BL	(0°-30°)	1106.2	4.6	B3/2500		
BM	(30°-60°)	1341.1	5.6	B2/2500		
BH	(60°-80°)	1476.1	6.1	B3/2500		G3/2500
BVH	(80°-90°)	67.6	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6
2.5°	4981.8	4990.1	5016.2	5032.8	5107.7	5139.8	5162.3	5184.9	5188.5	5199.1	5188.5
5°	4459.1	4476.9	4525.6	4580.3	4725.2	4839.3	4959.3	5084.0	5106.5	5187.3	5209.9
7.5°	4054.1	4049.4	4089.8	4155.0	4303.6	4461.5	4671.7	4920.0	4968.7	5150.5	5238.3
10°	3758.3	3754.7	3797.5	3865.2	4006.6	4156.2	4393.8	4733.5	4802.4	5092.2	5265.6
12.5°	3539.7	3540.9	3583.7	3658.6	3802.3	3953.1	4194.2	4552.9	4640.9	5024.5	5294.2
15°	3394.9	3404.4	3438.8	3518.3	3658.6	3809.4	4045.8	4417.6	4516.1	4971.1	5326.3
17.5°	3346.2	3361.6	3373.5	3431.7	3551.6	3702.5	3934.2	4317.8	4422.3	4934.3	5354.7
20°	3391.3	3409.1	3386.5	3406.7	3482.7	3615.8	3846.2	4239.4	4346.3	4892.7	5358.3
22.5°	3584.9	3601.5	3535.0	3476.8	3472.0	3552.8	3773.8	4177.6	4288.1	4861.8	5359.5
25°	3925.8	3936.5	3824.8	3689.4	3557.6	3530.2	3722.7	4134.9	4252.4	4834.5	5336.9
27.5°	4344.0	4352.2	4224.0	4024.4	3759.5	3583.7	3704.8	4109.9	4232.3	4810.7	5299.0
30°	4852.3	4891.5	4719.3	4467.4	4081.4	3741.6	3740.5	4096.8	4209.6	4770.3	5224.1
32.5°	5372.5	5389.2	5270.4	5015.0	4515.0	4019.7	3840.3	4106.3	4203.7	4721.6	5129.1
35°	5900.0	5921.4	5844.1	5638.7	5107.7	4427.0	4035.1	4162.2	4240.5	4705.1	5062.6
37.5°	6583.0	6611.5	6504.6	6267.0	5828.7	4979.4	4359.4	4302.3	4353.4	4752.5	5042.3
40°	7662.7	7649.6	7337.2	6983.3	6617.5	5686.2	4822.6	4540.0	4569.6	4905.8	5104.1
42.5°	8919.5	8887.4	8349.3	7793.4	7484.5	6541.5	5435.6	4952.1	4946.2	5207.4	5321.5
45°	9922.0	9895.8	9411.2	8725.9	8478.7	7515.4	6227.8	5566.2	5522.3	5686.2	5723.0
47.5°	10464.9	10466.0	10186.9	9627.4	9621.5	8753.2	7245.8	6454.7	6378.7	6455.8	6416.7
50°	10274.8	10299.7	10270.0	10091.8	10664.4	10375.8	8575.0	7693.6	7540.4	7616.4	7465.6
52.5°	9355.4	9387.5	9563.3	9836.5	11102.7	12336.9	10527.8	9233.1	9054.9	9027.5	8860.1
55°	7725.7	7764.9	8123.7	8866.0	10738.0	13654.1	13609.0	11195.4	10911.5	10653.7	10582.4
57.5°	5325.1	5390.4	5967.7	7070.0	9558.6	14052.1	17278.3	13992.7	13415.4	12515.1	12531.7
60°	3001.6	3077.6	3758.3	4759.7	7178.1	13619.8	20069.7	18229.7	17011.1	14694.7	14818.3
62.5°	1908.8	1990.8	2507.6	3306.9	4307.1	11291.5	21213.5	24120.3	22572.4	17381.6	17502.8
65°	1545.4	1581.0	1824.5	2729.6	3127.6	6802.7	20345.3	28972.5	28395.3	20791.9	20226.5
67.5°	1508.5	1520.4	1646.3	2291.3	2999.3	3823.7	16228.2	29880.0	30520.2	23976.5	21360.8
70°	1490.7	1532.3	1855.4	2186.8	2872.1	3225.0	9752.1	27392.7	28403.6	24809.1	19851.2
72.5°	723.4	721.0	933.6	1977.8	3235.7	3344.9	5010.3	22163.9	23178.2	21493.9	16312.6
75°	583.2	533.4	509.5	724.6	3110.9	3454.2	3192.9	15250.7	15984.7	14410.8	10027.7
77.5°	553.5	494.2	452.6	453.8	1314.9	3663.3	2704.7	8440.8	8654.6	6509.3	2747.4
80°	458.5	403.9	374.2	421.7	636.7	3488.7	2924.4	3820.1	3505.3	1598.9	914.6
82.5°	318.3	289.8	281.5	353.9	509.5	2486.2	3400.8	2052.6	1721.2	800.6	564.3
85°	203.2	173.4	192.4	257.8	396.7	1147.4	3502.9	1600.0	1272.1	508.4	318.3
87.5°	93.8	76.0	95.0	142.5	258.9	395.6	3333.1	1797.2	1310.2	268.4	200.7
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°	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6	5195.6
2.5°	5198.0	5175.4	5157.6	5124.4	5087.5	5051.8	5019.8	4979.4	4967.6	4956.8	4973.5
5°	5214.6	5192.0	5126.7	5024.5	4911.7	4806.0	4700.3	4610.0	4554.2	4523.3	4541.1
7.5°	5239.6	5207.4	5072.1	4884.4	4681.2	4496.0	4304.7	4151.4	4038.6	3985.2	4000.7
10°	5262.2	5200.4	4979.4	4697.9	4400.9	4125.4	3823.7	3574.2	3388.9	3291.4	3315.3
12.5°	5271.6	5173.1	4849.9	4465.1	4057.6	3653.8	3209.5	2836.5	2570.5	2473.1	2452.9
15°	5281.1	5142.2	4707.4	4200.2	3643.1	3071.7	2449.4	2002.7	1781.8	1733.1	1722.3
17.5°	5283.5	5088.7	4545.9	3912.7	3157.2	2379.3	1674.9	1390.9	1392.1	1470.5	1480.0
20°	5258.6	5009.1	4349.9	3555.2	2575.3	1645.1	1149.8	1101.1	1280.5	1476.5	1500.3
22.5°	5201.5	4903.4	4127.7	3138.3	1908.8	1083.3	889.7	943.2	1174.8	1414.7	1442.1
25°	5129.1	4775.1	3865.2	2654.9	1263.9	774.5	745.9	811.3	968.1	1128.4	1143.9
27.5°	5030.5	4623.0	3570.6	2101.2	820.8	637.9	656.8	700.8	765.0	836.3	843.3
30°	4903.4	4441.3	3255.8	1532.3	620.0	573.8	601.1	624.8	652.1	692.5	696.1
32.5°	4757.3	4266.7	2932.8	1058.3	549.9	540.4	561.8	573.8	595.2	620.0	622.5
35°	4635.0	4100.4	2597.8	748.3	520.3	515.6	529.8	534.5	554.7	582.1	584.4
37.5°	4564.8	3965.0	2252.1	603.4	500.1	493.0	501.2	501.2	529.8	570.2	576.1
40°	4569.6	3890.2	1906.5	545.2	483.4	473.9	475.2	475.2	512.0	555.9	559.5
42.5°	4699.1	3909.2	1600.0	522.6	470.4	459.7	453.8	457.4	488.2	516.7	519.0
45°	5003.2	4043.4	1312.5	508.4	457.4	453.8	440.7	439.5	451.4	464.4	464.4
47.5°	5502.0	4308.3	1117.8	498.9	446.6	445.4	429.9	414.6	413.4	418.1	418.1
50°	6313.3	4764.4	987.0	488.2	439.5	429.9	412.1	388.4	380.1	383.7	383.7
52.5°	7529.7	5578.0	937.2	473.9	424.0	408.6	388.4	364.7	357.5	358.7	358.7
55°	9124.9	6827.7	930.1	457.4	407.4	382.5	365.8	348.0	339.7	342.1	342.1
57.5°	11074.2	8556.0	1057.2	431.2	384.8	356.4	346.9	335.0	329.0	332.6	331.4
60°	13443.9	10817.6	1568.0	403.9	362.3	332.6	332.6	323.0	318.3	321.9	320.7
62.5°	16173.6	13415.4	2204.7	383.7	338.5	313.6	318.3	313.6	308.8	311.2	310.1
65°	18594.4	15108.1	2064.4	368.3	314.8	295.7	304.1	301.7	298.2	300.5	299.3
67.5°	18664.5	14480.9	1159.3	351.6	292.3	277.9	289.8	288.7	286.2	288.7	287.4
70°	16657.0	12227.6	653.4	320.7	268.4	256.6	273.2	272.0	269.6	274.4	273.2
72.5°	13345.3	8873.2	477.5	282.7	244.7	234.1	253.0	251.9	251.9	258.9	255.4
75°	7679.4	4566.0	381.3	242.3	219.7	211.4	228.0	229.2	231.6	241.1	234.1
77.5°	2189.2	1423.0	311.2	205.5	188.8	185.3	201.9	204.3	205.5	216.1	206.6
80°	813.7	655.7	256.6	172.3	154.5	155.6	171.0	174.6	175.8	186.5	174.6
82.5°	519.0	432.4	207.9	133.1	121.1	120.0	139.0	143.7	143.7	145.0	137.8
85°	302.9	258.9	156.8	96.3	85.5	81.9	103.3	111.7	108.1	105.7	101.0
87.5°	203.2	178.2	96.3	53.5	46.3	44.0	60.6	66.5	64.1	60.6	57.0
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)