

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: P191084

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191084  
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-06-LED-E1-SL2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 28824.7 lumens  
Efficiency: N/A  
Efficacy: 115.8 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): 249  
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

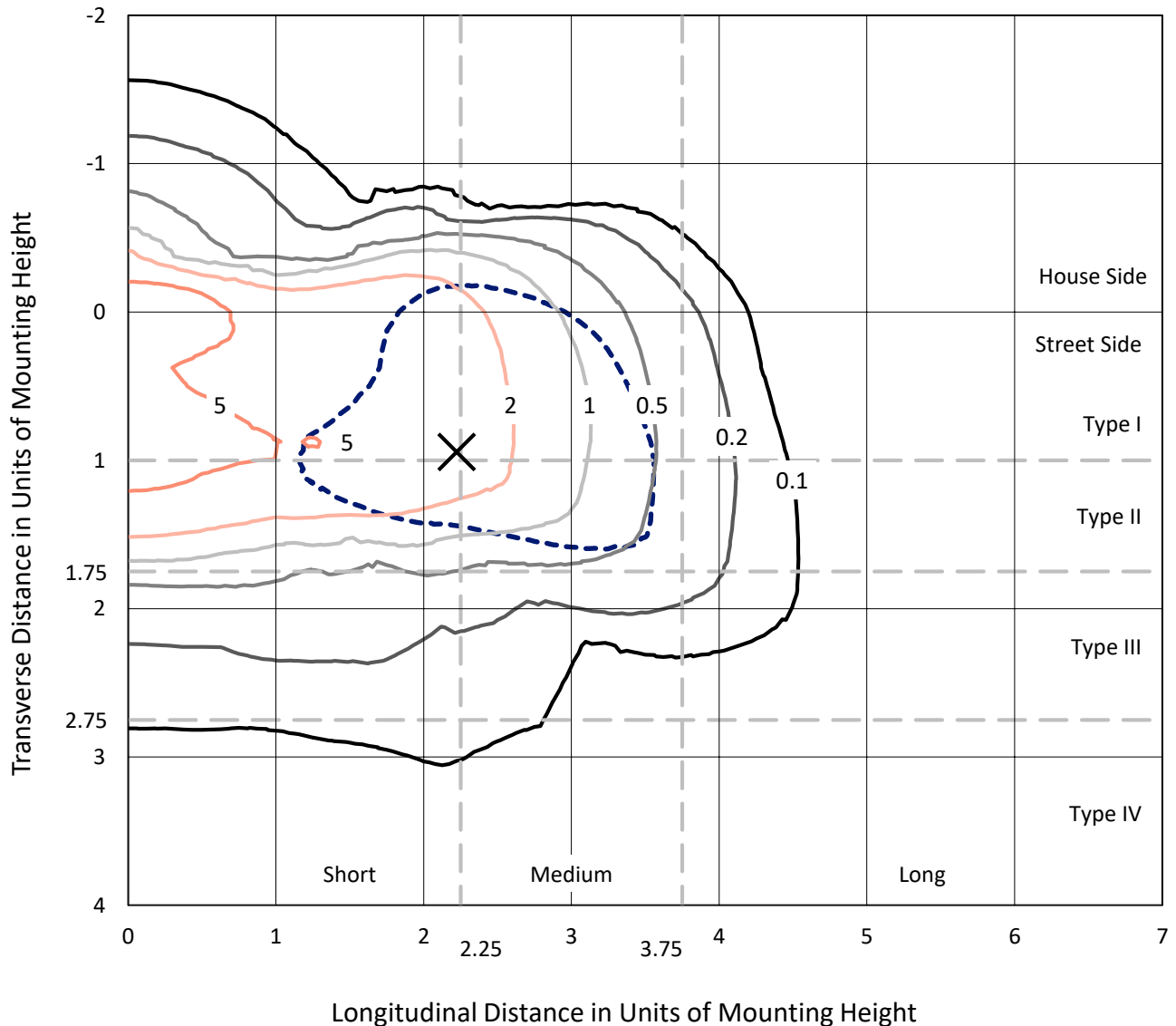


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### Iso-Footcandle Lines of Horizontal Illumination

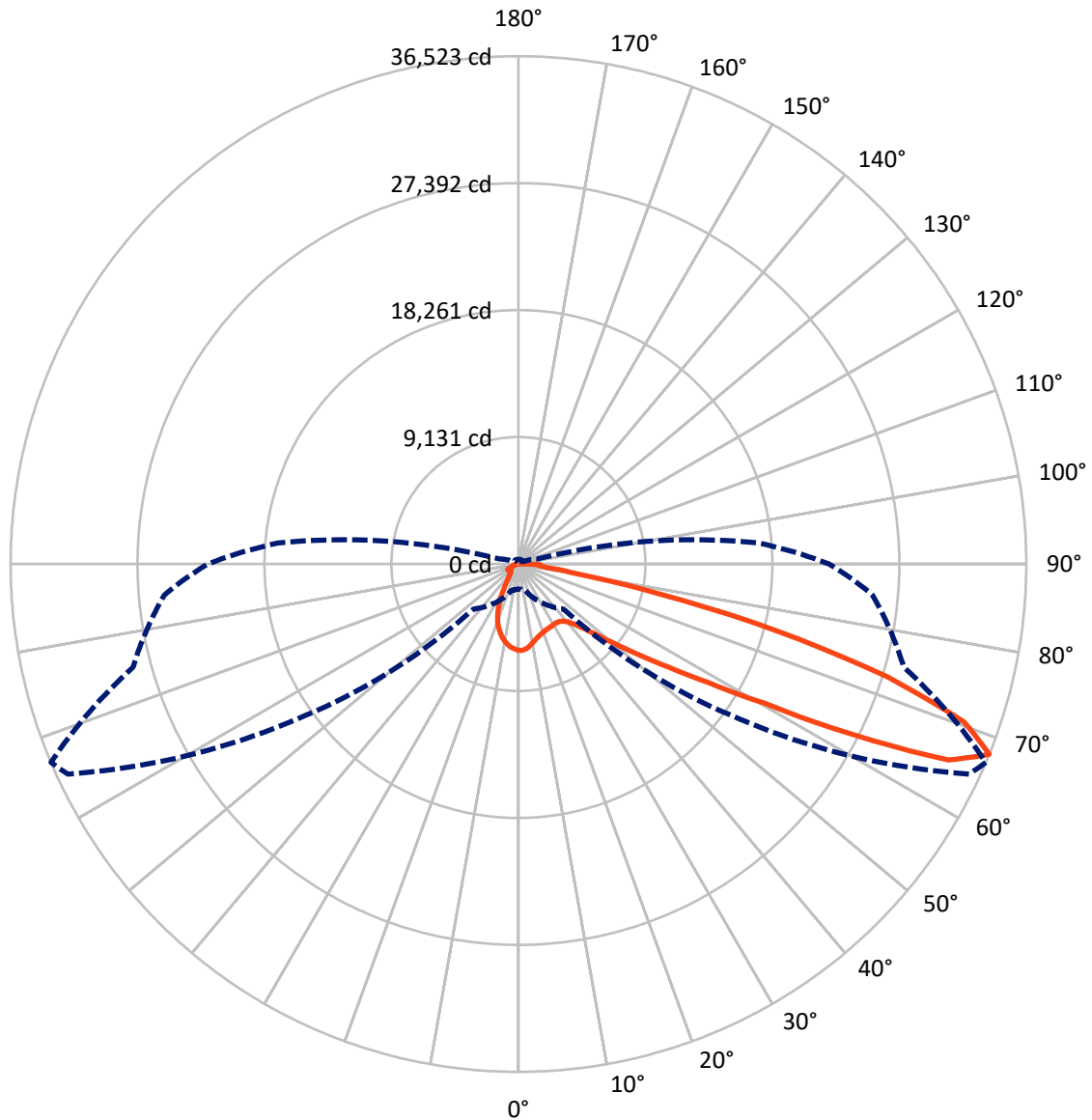
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4775.9	0.0	4775.9
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	24048.8	0.0	24048.8
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	28824.7	0.0	28824.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.4	1.8
10°-20°	1227.4	4.3
20°-30°	1663.7	5.8
30°-40°	2365.1	8.2
40°-50°	3956.9	13.7
50°-60°	6259.8	21.7
60°-70°	7974.4	27.7
70°-80°	4177.0	14.5
80°-90°	669.9	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°	28824.7	100.0
0°-180°	28824.7	100.0

**Coefficient of Utilization**



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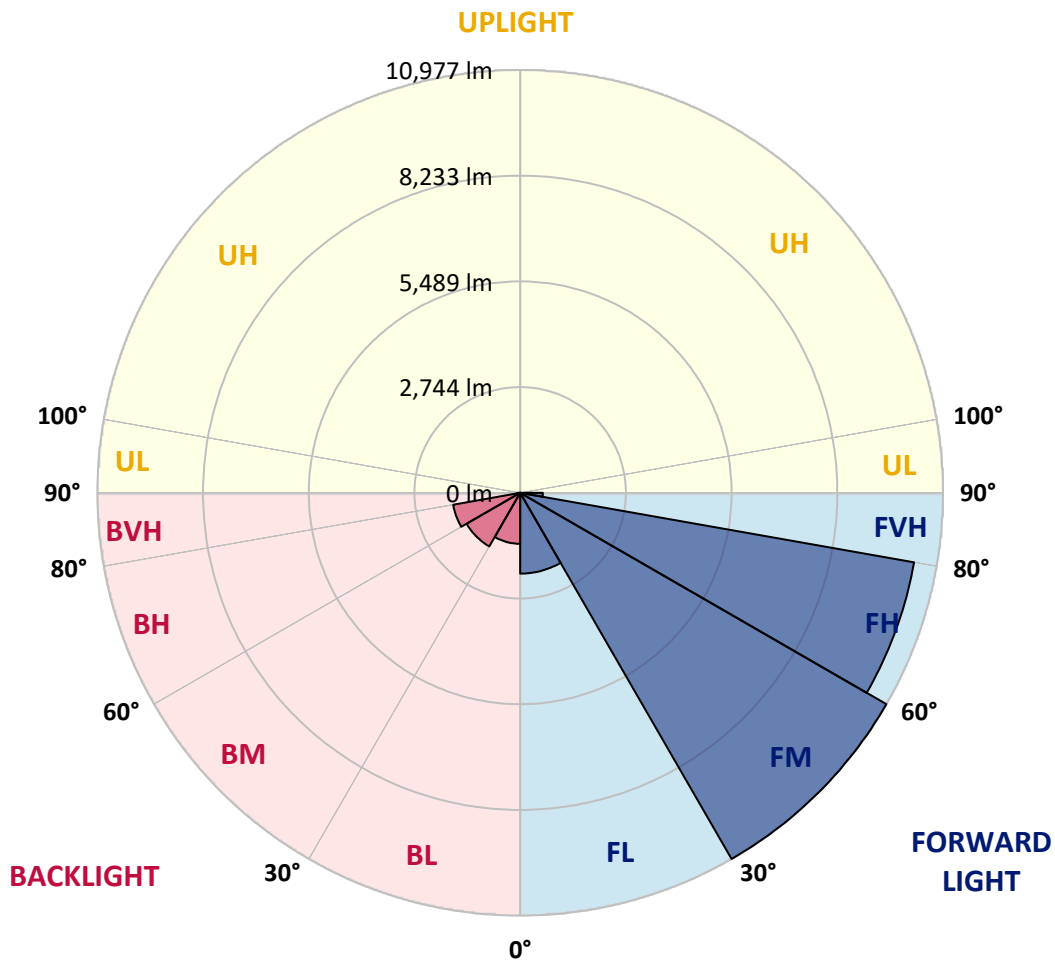
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2097.7	7.3			
FM	(30°-60°)	10977.0	38.1			
FH	(60°-80°)	10384.9	36.0			G4/12000
FVH	(80°-90°)	589.1	2.0			G4/750
BL	(0°-30°)	1323.8	4.6	B3/2500		
BM	(30°-60°)	1604.9	5.6	B2/2500		
BH	(60°-80°)	1766.5	6.1	B3/2500		G3/2500
BVH	(80°-90°)	80.9	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°	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4
2.5°	5961.6	5971.5	6002.8	6022.7	6112.2	6150.6	6177.6	6204.6	6208.9	6221.7	6208.9
5°	5336.1	5357.4	5415.7	5481.1	5654.6	5791.0	5934.5	6083.8	6110.8	6207.5	6234.5
7.5°	4851.4	4845.7	4894.0	4972.3	5149.9	5339.0	5590.5	5887.6	5945.9	6163.4	6268.5
10°	4497.5	4493.2	4544.4	4625.4	4794.6	4973.7	5258.0	5664.5	5746.9	6093.7	6301.3
12.5°	4235.9	4237.4	4288.5	4378.0	4550.1	4730.5	5019.1	5448.4	5553.6	6012.7	6335.4
15°	4062.5	4073.9	4115.1	4210.4	4378.0	4558.6	4841.4	5286.4	5404.4	5948.8	6373.8
17.5°	4004.2	4022.7	4036.9	4106.5	4250.2	4430.7	4707.8	5166.9	5292.0	5904.7	6407.9
20°	4058.3	4079.5	4052.5	4076.8	4167.7	4326.9	4602.7	5073.1	5201.1	5855.0	6412.2
22.5°	4289.9	4309.8	4230.2	4160.5	4154.9	4251.6	4515.9	4999.3	5131.4	5818.0	6413.6
25°	4697.9	4710.7	4577.1	4415.1	4257.2	4224.6	4454.8	4948.1	5088.8	5785.3	6386.6
27.5°	5198.2	5208.1	5054.7	4815.8	4498.9	4288.5	4433.5	4918.2	5064.6	5756.9	6341.1
30°	5806.6	5853.5	5647.4	5346.0	4884.1	4477.6	4476.1	4902.6	5037.6	5708.6	6251.6
32.5°	6429.2	6449.1	6307.0	6001.3	5402.9	4810.2	4595.5	4913.9	5030.5	5650.3	6137.8
35°	7060.3	7085.9	6993.5	6747.6	6112.2	5297.8	4828.6	4980.7	5074.6	5630.3	6058.2
37.5°	7877.6	7911.8	7783.8	7499.6	6975.1	5958.7	5216.7	5148.5	5209.6	5687.2	6034.1
40°	9169.7	9154.2	8780.3	8356.7	7918.9	6804.5	5771.1	5432.8	5468.3	5870.6	6107.9
42.5°	10673.7	10635.3	9991.4	9326.1	8956.5	7827.9	6504.5	5926.1	5918.9	6231.6	6368.1
45°	11873.4	11842.1	11262.2	10442.0	10146.3	8993.5	7452.7	6660.9	6608.4	6804.5	6848.6
47.5°	12523.0	12524.4	12190.3	11520.9	11513.7	10474.7	8670.8	7724.2	7633.2	7725.5	7678.7
50°	12295.6	12325.4	12289.8	12076.7	12761.7	12416.4	10261.4	9206.8	9023.3	9114.3	8933.8
52.5°	11195.4	11233.7	11444.1	11771.0	13286.3	14763.1	12598.4	11048.9	10835.7	10803.0	10602.6
55°	9245.1	9292.0	9721.3	10609.7	12849.9	16339.6	16285.6	13397.2	13057.5	12748.9	12663.7
57.5°	6372.4	6450.5	7141.3	8460.4	11438.4	16815.8	20676.4	16744.7	16053.9	14976.4	14996.3
60°	3592.0	3682.9	4497.5	5695.8	8589.8	16298.4	24016.8	21814.9	20356.6	17584.7	17732.5
62.5°	2284.2	2382.4	3000.7	3957.3	5154.1	13512.3	25385.6	28864.0	27011.8	20800.1	20945.0
65°	1849.3	1891.9	2183.4	3266.5	3742.7	8140.6	24346.5	34670.6	33979.8	24881.0	24204.4
67.5°	1805.2	1819.4	1970.1	2742.0	3589.1	4575.7	19419.8	35756.5	36522.7	28691.9	25561.9
70°	1783.9	1833.6	2220.3	2616.9	3437.1	3859.2	11670.1	32780.0	33989.7	29688.4	23755.3
72.5°	865.6	862.9	1117.3	2366.7	3872.1	4002.8	5995.7	26522.9	27736.7	25721.1	19520.8
75°	698.0	638.2	609.8	867.1	3722.8	4133.5	3820.8	18250.0	19128.5	17245.0	11999.8
77.5°	662.4	591.4	541.6	543.0	1573.5	4383.8	3236.6	10100.8	10356.7	7789.6	3287.8
80°	548.7	483.2	447.7	504.6	761.9	4174.8	3499.6	4571.4	4194.7	1913.2	1094.6
82.5°	380.9	346.9	336.9	423.6	609.8	2975.0	4069.6	2456.3	2059.7	958.1	675.1
85°	243.1	207.6	230.3	308.4	474.8	1373.1	4191.8	1914.7	1522.4	608.3	380.9
87.5°	112.3	90.9	113.8	170.5	309.9	473.3	3988.6	2150.7	1567.9	321.2	240.2
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°	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4	6217.4
2.5°	6220.3	6193.3	6172.0	6132.2	6088.1	6045.4	6007.1	5958.7	5944.5	5931.7	5951.6
5°	6240.2	6213.2	6134.9	6012.7	5877.7	5751.2	5624.7	5516.7	5449.9	5412.8	5434.2
7.5°	6270.0	6231.6	6069.6	5845.0	5601.9	5380.2	5151.4	4968.0	4832.9	4769.0	4787.4
10°	6297.0	6223.1	5958.7	5621.8	5266.5	4936.7	4575.7	4277.2	4055.4	3938.9	3967.3
12.5°	6308.4	6190.4	5803.8	5343.2	4855.6	4372.4	3840.8	3394.5	3076.0	2959.5	2935.3
15°	6319.8	6153.5	5633.2	5026.3	4359.6	3675.9	2931.1	2396.6	2132.1	2073.9	2061.1
17.5°	6322.7	6089.5	5439.8	4682.3	3778.2	2847.2	2004.3	1664.5	1666.0	1759.8	1771.1
20°	6292.8	5994.3	5205.4	4254.4	3081.7	1968.7	1376.0	1317.7	1532.3	1766.8	1795.3
22.5°	6224.6	5867.7	4939.5	3755.5	2284.2	1296.4	1064.7	1128.6	1405.8	1693.0	1725.6
25°	6137.8	5714.2	4625.4	3177.0	1512.4	926.8	892.6	970.9	1158.5	1350.4	1368.8
27.5°	6019.9	5532.3	4272.9	2514.5	982.2	763.3	786.0	838.6	915.4	1000.7	1009.2
30°	5867.7	5314.8	3896.2	1833.6	741.9	686.6	719.2	747.7	780.4	828.7	833.0
32.5°	5692.9	5105.9	3509.5	1266.5	658.2	646.7	672.4	686.6	712.2	741.9	744.8
35°	5546.5	4906.9	3108.7	895.5	622.6	616.9	633.9	639.7	663.8	696.5	699.4
37.5°	5462.7	4744.8	2695.1	722.1	598.4	589.9	599.9	599.9	633.9	682.3	689.4
40°	5468.3	4655.2	2281.4	652.4	578.6	567.1	568.6	568.6	612.6	665.2	669.5
42.5°	5623.3	4678.0	1914.7	625.4	562.9	550.1	543.0	547.3	584.2	618.4	621.1
45°	5987.1	4838.7	1570.7	608.3	547.3	543.0	527.3	525.9	540.1	555.8	555.8
47.5°	6584.1	5155.6	1337.6	597.0	534.5	533.1	514.5	496.1	494.7	500.3	500.3
50°	7555.0	5701.4	1181.2	584.2	525.9	514.5	493.3	464.8	454.9	459.1	459.1
52.5°	9010.6	6675.2	1121.6	567.1	507.5	489.0	464.8	436.4	427.9	429.2	429.2
55°	10919.6	8170.5	1113.0	547.3	487.5	457.7	437.8	416.4	406.5	409.4	409.4
57.5°	13252.1	10238.7	1265.1	516.0	460.5	426.5	415.1	400.9	393.7	398.0	396.6
60°	16087.9	12945.1	1876.3	483.2	433.5	398.0	398.0	386.7	380.9	385.2	383.8
62.5°	19354.4	16053.9	2638.2	459.1	405.1	375.2	380.9	375.2	369.6	372.5	371.0
65°	22251.3	18079.4	2470.5	440.7	376.7	353.9	363.9	361.0	356.8	359.7	358.2
67.5°	22335.2	17328.9	1387.3	420.7	349.6	332.7	346.9	345.5	342.6	345.5	344.0
70°	19933.0	14632.4	781.8	383.8	321.2	307.0	326.9	325.5	322.6	328.4	326.9
72.5°	15970.0	10618.2	571.4	338.3	292.8	280.0	302.8	301.4	301.4	309.9	305.7
75°	9189.7	5464.1	456.2	290.0	263.0	253.0	272.9	274.4	277.2	288.6	280.0
77.5°	2619.8	1702.9	372.5	245.9	226.0	221.8	241.6	244.5	245.9	258.7	247.3
80°	973.6	784.6	307.0	206.1	184.7	186.2	204.7	209.0	210.4	223.2	209.0
82.5°	621.1	517.4	248.8	159.2	145.0	143.5	166.3	172.0	172.0	173.4	164.9
85°	362.4	309.9	187.6	115.2	102.3	98.1	123.7	133.6	129.3	126.5	120.8
87.5°	243.1	213.2	115.2	63.9	55.4	52.6	72.5	79.6	76.7	72.5	68.2
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)