

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: P193625

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193625
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-07-LED-E1-SL2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 27192 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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

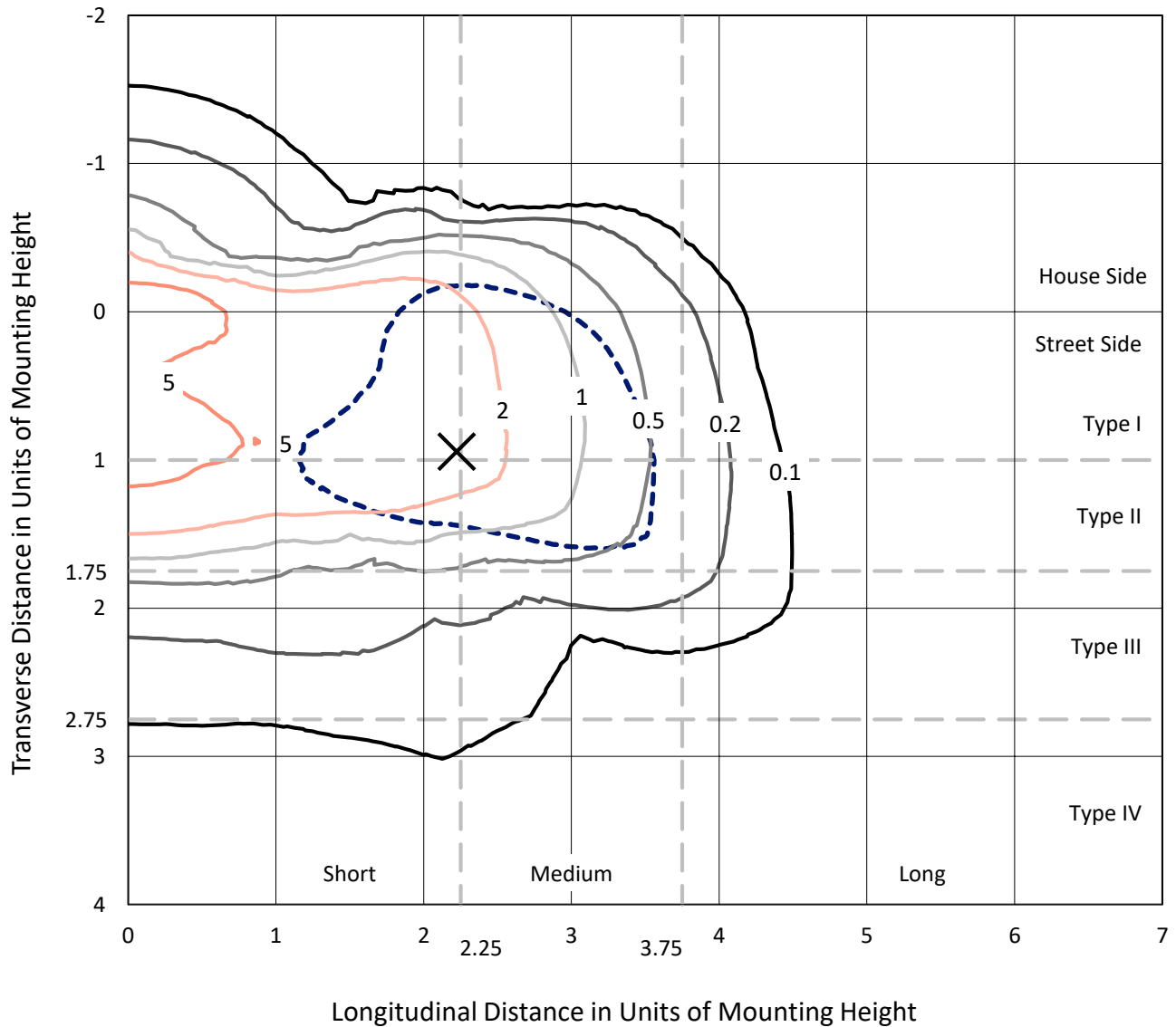


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Iso-Footcandle Lines of Horizontal Illumination

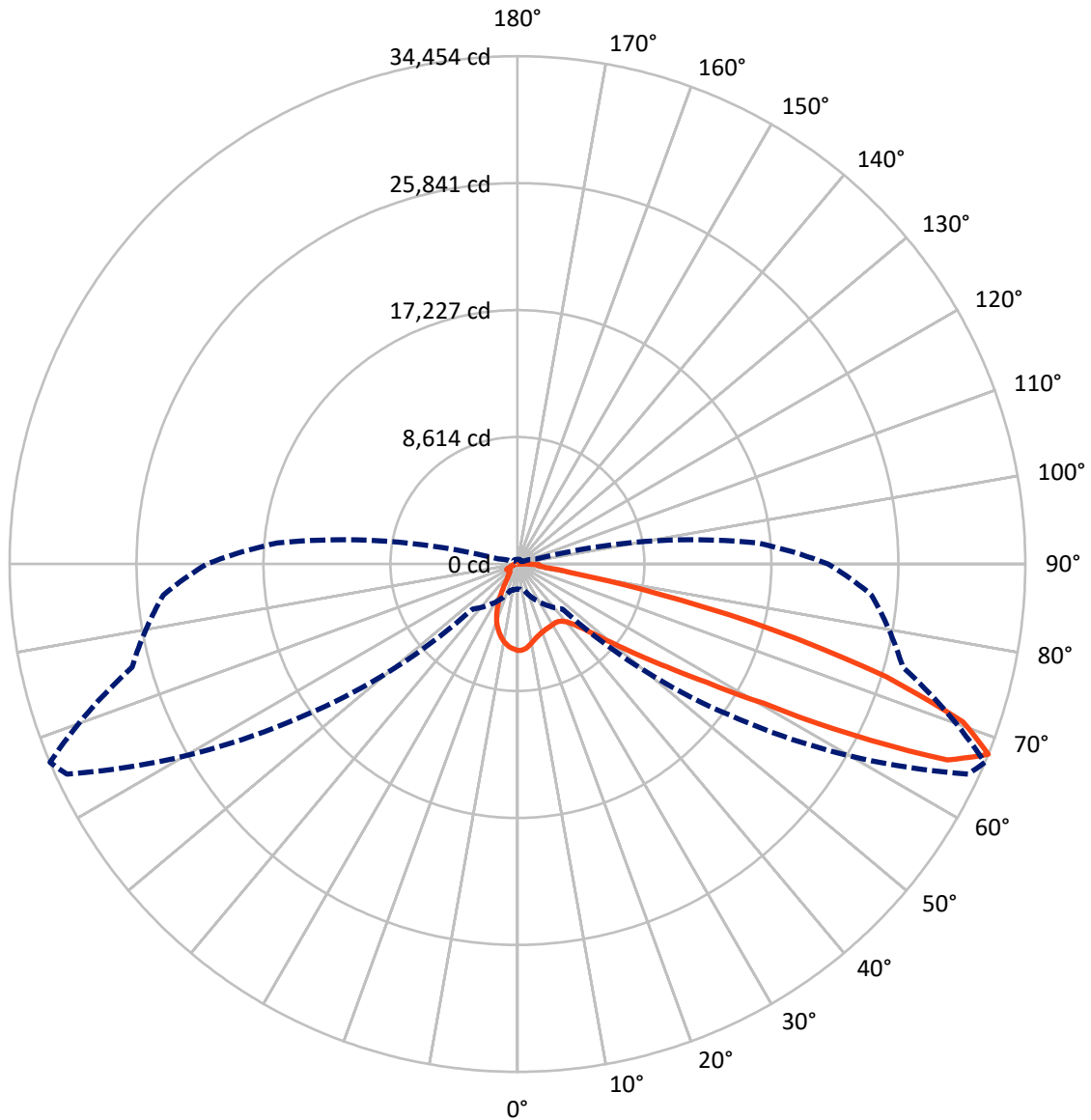
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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
House Side	Lumens	4505.4	0.0	4505.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	22686.6	0.0	22686.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	27192.0	0.0	27192.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.4	1.8
10°-20°	1157.8	4.3
20°-30°	1569.5	5.8
30°-40°	2231.2	8.2
40°-50°	3732.8	13.7
50°-60°	5905.3	21.7
60°-70°	7522.7	27.7
70°-80°	3940.4	14.5
80°-90°	632.0	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°	27192.0	100.0
0°-180°	27192.0	100.0



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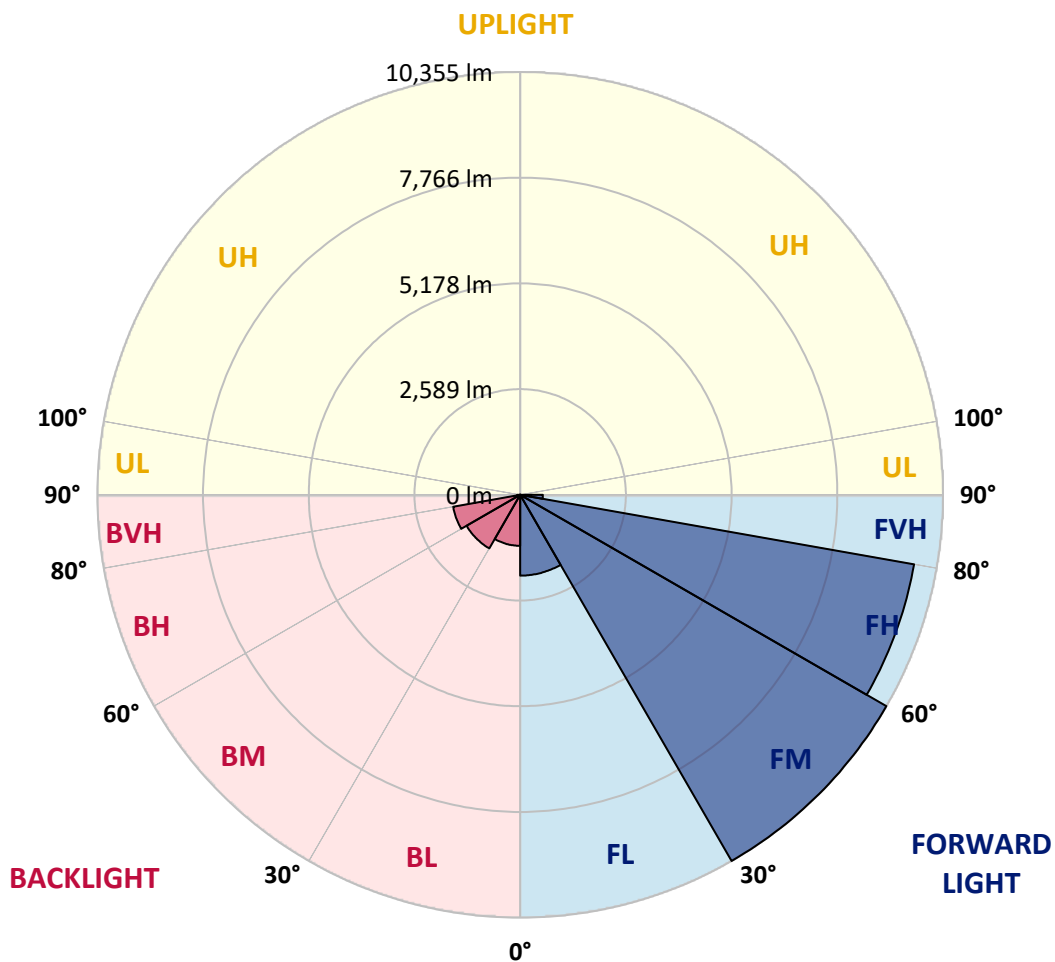
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1978.9	7.3			
FM (30°-60°)	10355.3	38.1			
FH (60°-80°)	9796.7	36.0			G4/12000
FVH (80°-90°)	555.7	2.0			G4/750
BL (0°-30°)	1248.8	4.6	B3/2500		
BM (30°-60°)	1514.0	5.6	B2/2500		
BH (60°-80°)	1666.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	76.3	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°	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2
2.5°	5623.9	5633.3	5662.8	5681.5	5766.0	5802.2	5827.7	5853.2	5857.2	5869.3	5857.2
5°	5033.9	5054.0	5109.0	5170.6	5334.2	5463.0	5598.4	5739.2	5764.7	5855.9	5881.3
7.5°	4576.6	4571.2	4616.8	4690.6	4858.2	5036.6	5273.9	5554.2	5609.1	5814.3	5913.5
10°	4242.7	4238.7	4287.0	4363.4	4523.0	4691.9	4960.1	5343.6	5421.4	5748.6	5944.4
12.5°	3996.0	3997.3	4045.6	4130.1	4292.3	4462.6	4734.8	5139.8	5239.0	5672.2	5976.5
15°	3832.4	3843.1	3882.0	3971.8	4130.1	4300.4	4567.2	4986.9	5098.2	5611.8	6012.8
17.5°	3777.4	3794.8	3808.3	3874.0	4009.4	4179.7	4441.2	4874.3	4992.3	5570.2	6044.9
20°	3828.4	3848.5	3823.0	3845.8	3931.6	4081.8	4341.9	4785.8	4906.5	5523.3	6049.0
22.5°	4046.9	4065.7	3990.6	3924.9	3919.6	4010.7	4260.1	4716.1	4840.8	5488.4	6050.3
25°	4431.8	4443.9	4317.8	4164.9	4016.1	3985.3	4202.5	4667.8	4800.5	5457.6	6024.8
27.5°	4903.8	4913.2	4768.4	4543.1	4244.1	4045.6	4182.4	4639.6	4777.7	5430.8	5981.9
30°	5477.7	5522.0	5327.5	5043.3	4607.5	4223.9	4222.6	4624.9	4752.3	5385.2	5897.4
32.5°	6065.0	6083.8	5949.7	5661.4	5096.9	4537.7	4335.2	4635.6	4745.6	5330.2	5790.2
35°	6660.4	6684.6	6597.4	6365.4	5766.0	4997.7	4555.2	4698.6	4787.1	5311.4	5715.1
37.5°	7431.5	7463.6	7343.0	7074.8	6580.0	5621.2	4921.2	4856.9	4914.5	5365.1	5692.3
40°	8650.4	8635.6	8283.0	7883.4	7470.3	6419.1	5444.2	5125.1	5158.6	5538.1	5762.0
42.5°	10069.1	10032.9	9425.4	8797.9	8449.2	7384.5	6136.1	5590.4	5583.7	5878.7	6007.4
45°	11200.8	11171.3	10624.2	9850.5	9571.6	8484.1	7030.5	6283.6	6234.0	6419.1	6460.6
47.5°	11813.6	11815.0	11499.9	10868.3	10861.6	9881.3	8179.7	7286.6	7200.8	7288.0	7243.7
50°	11599.1	11627.2	11593.7	11392.6	12038.9	11713.1	9680.2	8685.2	8512.3	8598.1	8427.8
52.5°	10561.2	10597.4	10795.9	11104.3	12533.7	13926.9	11884.7	10423.1	10221.9	10191.1	10002.0
55°	8721.4	8765.7	9170.7	10008.7	12122.0	15414.0	15363.1	12638.3	12317.8	12026.8	11946.4
57.5°	6011.4	6085.2	6736.9	7981.2	10790.5	15863.3	19505.2	15796.2	15144.5	14128.1	14146.9
60°	3388.5	3474.4	4242.7	5373.1	8103.3	15375.2	22656.4	20579.3	19203.5	16588.7	16728.2
62.5°	2154.9	2247.4	2830.7	3733.2	4862.2	12746.9	23947.8	27229.0	25481.8	19621.9	19758.7
65°	1744.6	1784.8	2059.7	3081.5	3530.7	7679.5	22967.5	32706.7	32055.0	23471.7	22833.4
67.5°	1703.0	1716.4	1858.5	2586.7	3385.9	4316.5	18319.8	33731.2	34454.0	27066.8	24114.0
70°	1682.9	1729.8	2094.5	2468.7	3242.4	3640.6	11009.1	30923.3	32064.4	28006.8	22409.7
72.5°	816.6	813.9	1054.0	2232.7	3652.7	3776.1	5656.1	25020.5	26165.7	24264.2	18415.1
75°	658.4	602.1	575.3	818.0	3511.9	3899.4	3604.4	17216.3	18045.0	16268.2	11320.2
77.5°	624.9	557.8	510.9	512.2	1484.4	4135.4	3053.3	9528.7	9770.0	7348.3	3101.6
80°	517.6	455.9	422.4	476.0	718.7	3938.3	3301.4	4312.4	3957.1	1804.9	1032.5
82.5°	359.4	327.2	317.8	399.6	575.3	2806.6	3839.1	2317.1	1943.0	903.8	636.9
85°	229.3	195.8	217.2	291.0	447.9	1295.3	3954.4	1806.2	1436.1	573.9	359.4
87.5°	105.9	85.8	107.3	160.9	292.3	446.5	3762.7	2028.8	1479.1	303.1	226.6
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°	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2	5865.2
2.5°	5867.9	5842.5	5822.3	5784.8	5743.2	5703.0	5666.8	5621.2	5607.8	5595.7	5614.5
5°	5886.7	5861.2	5787.5	5672.2	5544.8	5425.4	5306.1	5204.2	5141.1	5106.3	5126.4
7.5°	5914.9	5878.7	5725.8	5513.9	5284.6	5075.4	4859.5	4686.6	4559.2	4498.8	4516.3
10°	5940.3	5870.6	5621.2	5303.4	4968.2	4657.1	4316.5	4034.9	3825.7	3715.7	3742.5
12.5°	5951.1	5839.8	5475.0	5040.6	4580.6	4124.7	3623.2	3202.2	2901.8	2791.8	2769.0
15°	5961.8	5804.9	5314.1	4741.5	4112.6	3467.7	2765.0	2260.8	2011.4	1956.4	1944.4
17.5°	5964.5	5744.6	5131.8	4417.0	3564.2	2685.9	1890.7	1570.2	1571.6	1660.1	1670.8
20°	5936.3	5654.7	4910.5	4013.4	2907.1	1857.2	1298.0	1243.0	1445.5	1666.8	1693.6
22.5°	5872.0	5535.4	4659.7	3542.7	2154.9	1222.9	1004.4	1064.7	1326.2	1597.1	1627.9
25°	5790.2	5390.6	4363.4	2997.0	1426.8	874.3	842.1	915.9	1092.9	1273.9	1291.3
27.5°	5678.9	5218.9	4030.8	2372.1	926.6	720.1	741.5	791.2	863.6	944.0	952.1
30°	5535.4	5013.8	3675.5	1729.8	700.0	647.7	678.5	705.3	736.2	781.8	785.8
32.5°	5370.4	4816.6	3310.8	1194.8	620.9	610.1	634.3	647.7	671.8	700.0	702.6
35°	5232.3	4628.9	2932.6	844.8	587.3	582.0	598.1	603.4	626.2	657.1	659.7
37.5°	5153.2	4476.0	2542.4	681.2	564.5	556.5	565.9	565.9	598.1	643.6	650.4
40°	5158.6	4391.6	2152.2	615.5	545.8	535.0	536.4	536.4	577.9	627.6	631.6
42.5°	5304.7	4413.0	1806.2	590.0	531.0	518.9	512.2	516.3	551.1	583.3	586.0
45°	5648.0	4564.5	1481.7	573.9	516.3	512.2	497.5	496.1	509.6	524.3	524.3
47.5°	6211.2	4863.6	1261.8	563.2	504.2	502.9	485.4	468.0	466.6	472.0	472.0
50°	7127.1	5378.5	1114.3	551.1	496.1	485.4	465.3	438.5	429.1	433.1	433.1
52.5°	8500.2	6297.0	1058.0	535.0	478.7	461.3	438.5	411.7	403.6	405.0	405.0
55°	10301.1	7707.7	1050.0	516.3	459.9	431.8	413.0	392.9	383.5	386.2	386.2
57.5°	12501.5	9658.8	1193.4	486.8	434.5	402.3	391.6	378.1	371.4	375.5	374.1
60°	15176.7	12211.9	1770.0	455.9	409.0	375.5	375.5	364.7	359.4	363.4	362.1
62.5°	18258.2	15144.5	2488.8	433.1	382.2	354.0	359.4	354.0	348.6	351.3	350.0
65°	20991.0	17055.3	2330.5	415.7	355.3	333.9	343.3	340.6	336.6	339.3	337.9
67.5°	21070.1	16347.3	1308.8	396.9	329.9	313.8	327.2	325.8	323.2	325.8	324.5
70°	18803.9	13803.6	737.5	362.1	303.1	289.6	308.4	307.1	304.4	309.8	308.4
72.5°	15065.4	10016.8	539.1	319.1	276.2	264.2	285.6	284.3	284.3	292.3	288.3
75°	8669.1	5154.6	430.4	273.6	248.1	238.7	257.5	258.8	261.5	272.2	264.2
77.5°	2471.3	1606.4	351.3	232.0	213.2	209.2	228.0	230.6	232.0	244.1	233.3
80°	918.5	740.2	289.6	194.4	174.3	175.7	193.1	197.1	198.5	210.5	197.1
82.5°	586.0	488.1	234.7	150.2	136.8	135.4	156.9	162.3	162.3	163.6	155.5
85°	341.9	292.3	177.0	108.6	96.5	92.5	116.7	126.0	122.0	119.3	114.0
87.5°	229.3	201.1	108.6	60.3	52.3	49.6	68.4	75.1	72.4	68.4	64.4
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)