

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: P323641

Luminaire Tested: **GLEON-SA7B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25385 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

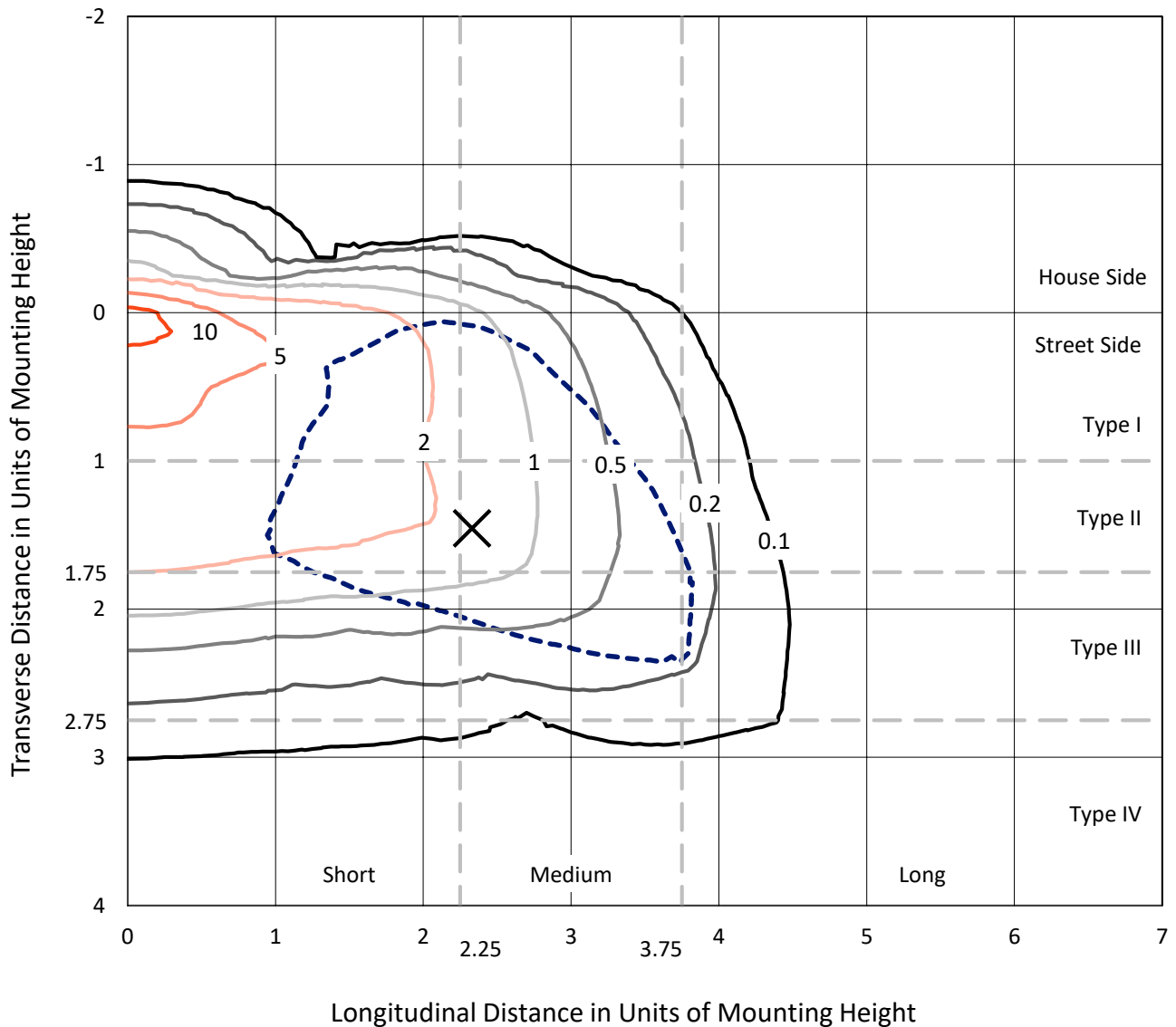
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323641
 CATALOG NUMBER: GLEON-SA7B-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

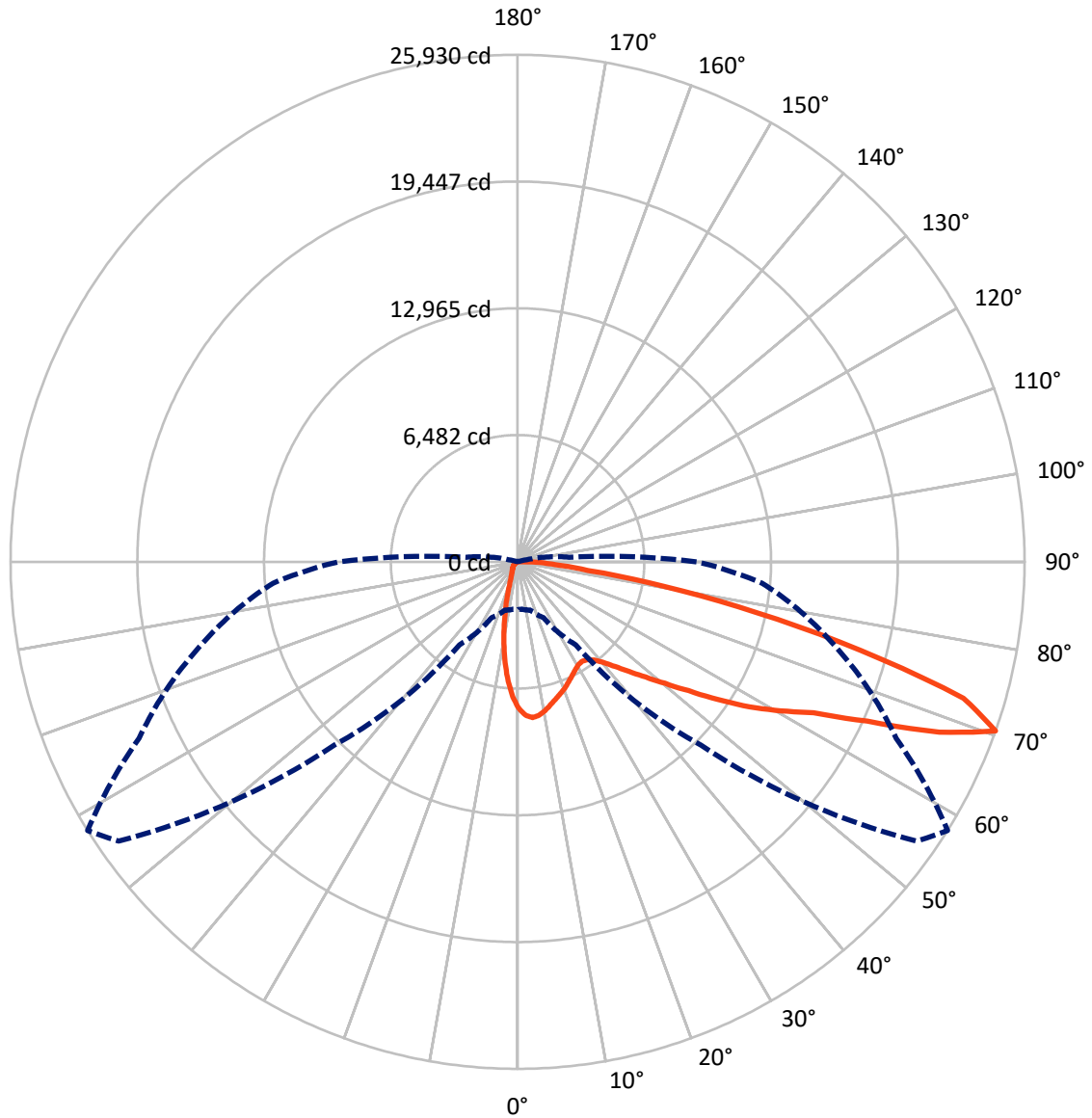
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P323641
CATALOG NUMBER: GLEON-SA7B-827-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2172.4	0.0	2172.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	23212.6	0.0	23212.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	25385.0	0.0	25385.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.2	2.4
10°-20°	1287.0	5.1
20°-30°	1691.9	6.7
30°-40°	2240.7	8.8
40°-50°	3349.2	13.2
50°-60°	5365.3	21.1
60°-70°	6762.9	26.6
70°-80°	3647.9	14.4
80°-90°	427.0	1.7
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°	25385.0	100.0
0°-180°	25385.0	100.0

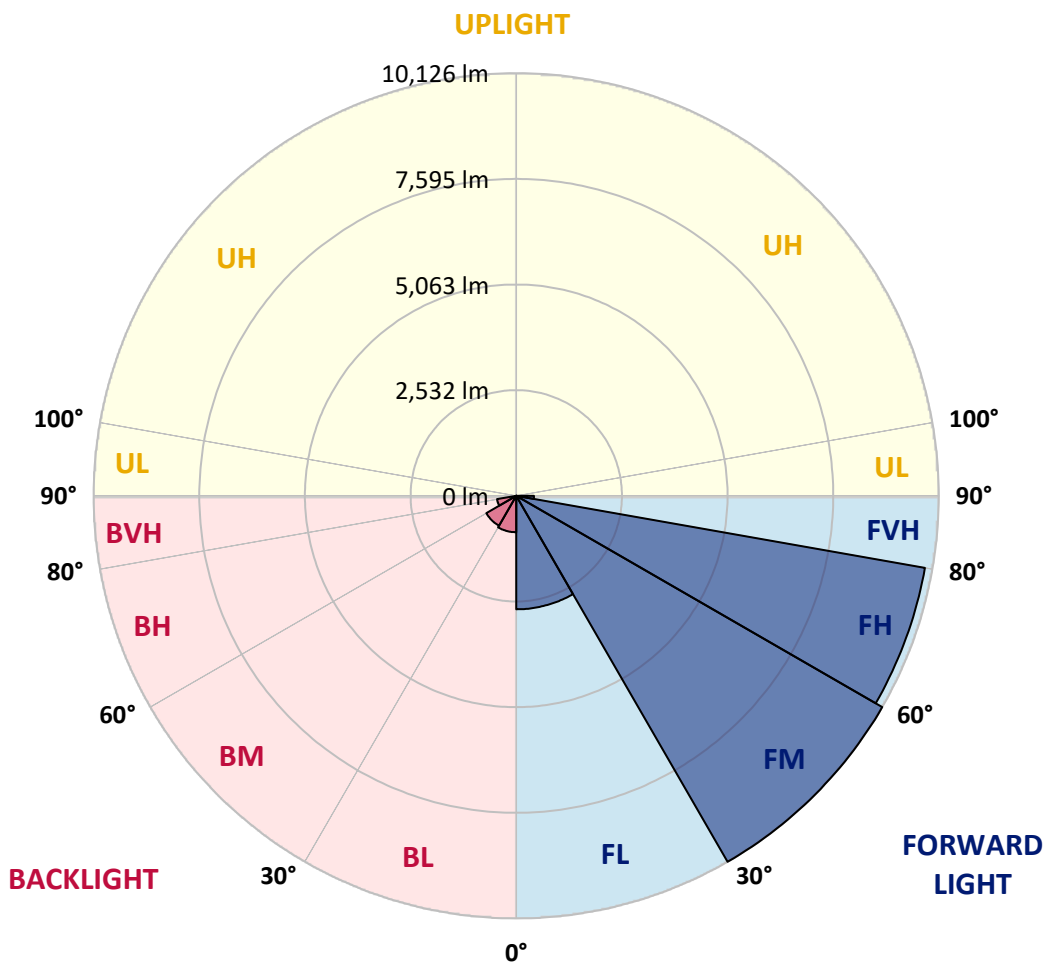


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2719.3	10.7			
FM (30°-60°)	10126.5	39.9			
FH (60°-80°)	9943.6	39.2			G4/12000
FVH (80°-90°)	423.3	1.7			G3/500
BL (0°-30°)	872.8	3.4	B2/1000		
BM (30°-60°)	828.7	3.3	B1/1000		
BH (60°-80°)	467.2	1.8	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P323641

CATALOG NUMBER: GLEON-SA7B-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6
2.5°	8120.3	8100.3	8092.9	8080.2	8031.7	7984.2	7890.2	7863.8	7804.7	7664.3	7515.5
5°	8126.7	8125.6	8147.8	8142.5	8125.6	8103.4	8035.9	8001.0	7900.8	7700.2	7427.9
7.5°	7735.1	7755.1	7804.7	7844.8	7891.3	7951.4	7959.9	7926.1	7843.8	7627.4	7266.4
10°	7209.4	7241.1	7310.7	7389.9	7511.3	7631.6	7739.3	7735.1	7706.6	7493.3	7072.2
12.5°	6682.7	6719.6	6799.8	6917.0	7089.1	7285.4	7477.5	7503.9	7551.4	7373.0	6892.7
15°	6221.4	6253.1	6332.2	6475.8	6689.0	6952.9	7234.7	7283.3	7405.7	7279.1	6742.8
17.5°	5829.8	5849.8	5907.9	6067.3	6314.3	6634.1	7000.4	7095.4	7278.0	7205.2	6613.0
20°	5556.4	5559.6	5597.6	5709.5	5956.5	6314.3	6757.6	6893.8	7142.9	7141.8	6479.0
22.5°	5421.3	5410.7	5418.1	5482.5	5664.1	6009.2	6514.8	6676.3	7021.5	7088.0	6342.8
25°	5396.0	5387.5	5366.4	5374.8	5484.6	5742.2	6270.0	6456.8	6914.9	7055.3	6224.6
27.5°	5475.1	5483.6	5447.7	5409.7	5418.1	5569.1	6052.5	6268.9	6828.3	7055.3	6141.2
30°	5634.5	5638.7	5612.3	5562.7	5496.2	5520.5	5901.6	6118.0	6785.1	7103.8	6088.4
32.5°	5810.8	5834.0	5830.8	5790.7	5695.7	5597.6	5865.7	6063.1	6781.9	7211.5	6083.1
35°	6029.3	6055.7	6100.0	6091.6	5992.3	5830.8	5988.1	6143.3	6844.2	7388.8	6140.1
37.5°	6261.5	6301.6	6396.6	6442.0	6377.6	6195.0	6262.6	6373.4	7010.9	7675.9	6284.7
40°	6486.3	6531.7	6704.8	6883.2	6834.7	6646.8	6678.4	6767.1	7307.6	8088.7	6559.2
42.5°	6706.9	6774.5	7028.9	7322.3	7380.4	7230.5	7247.4	7318.1	7747.7	8656.5	7007.8
45°	6970.8	7046.8	7423.7	7785.7	7940.9	7875.4	7947.2	7993.7	8323.0	9407.0	7612.6
47.5°	7358.2	7445.8	7908.2	8320.9	8593.2	8635.4	8780.0	8810.7	9050.3	10281.0	8401.1
50°	8114.0	8138.3	8556.3	8931.0	9323.7	9577.0	9741.6	9764.9	9930.6	11236.3	9385.9
52.5°	9065.0	9080.9	9317.3	9568.5	10015.0	10532.3	10917.5	10950.2	10985.1	12167.3	10358.1
55°	10009.8	10007.6	10163.9	10311.6	10822.5	11574.1	12410.1	12430.1	12180.0	13050.8	11101.2
57.5°	10599.8	10656.8	10894.3	11084.3	11797.9	12761.6	13921.6	13995.5	13435.0	13705.2	11835.9
60°	10411.9	10439.4	10966.1	11669.1	13012.8	14449.4	15451.1	15470.1	14378.7	14358.6	12764.7
62.5°	8870.8	8885.6	9713.1	11162.4	13628.2	16638.6	17296.2	16986.9	15463.8	15265.3	13876.2
65°	6080.0	6176.0	6867.4	8658.7	12497.7	18011.9	20152.5	19640.6	17117.8	16572.1	14881.1
67.5°	3580.4	3560.4	3902.4	5221.8	9179.0	17099.9	23765.7	23256.9	19373.5	17447.1	14586.6
70°	2445.7	2432.0	2562.9	3161.4	5181.7	13265.1	24902.5	25929.5	21365.3	16858.1	12553.6
72.5°	1745.9	1753.3	1946.4	2456.3	3253.2	7728.7	21414.9	23845.9	20741.5	14696.4	9542.1
75°	1185.4	1205.4	1482.0	2015.0	2852.1	3931.9	15196.7	18126.9	16889.8	10681.1	5484.6
77.5°	637.6	659.7	985.9	1623.4	2578.7	2731.8	9775.4	12475.5	10609.3	4801.7	1589.7
80°	266.0	278.7	461.3	1180.1	2228.3	2399.3	5751.7	7565.1	4520.9	946.8	354.7
82.5°	115.1	121.4	192.1	704.1	1665.7	2025.6	3045.3	3639.5	1370.1	207.9	178.4
85°	22.2	23.2	79.2	372.6	1062.9	1143.2	1973.9	1934.8	615.4	89.7	129.8
87.5°	0.0	0.0	19.0	117.2	312.4	622.8	1204.4	1189.6	209.0	43.3	48.6
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°	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6	7498.6
2.5°	7439.5	7366.7	7213.6	7024.7	6880.1	6720.7	6594.0	6433.6	6363.9	6367.1	6329.1
5°	7272.7	7122.8	6784.0	6356.5	6027.2	5687.3	5394.9	5103.6	4931.5	4875.6	4822.8
7.5°	7034.2	6796.7	6256.2	5597.6	5040.2	4495.6	4021.6	3604.7	3340.8	3212.0	3164.5
10°	6765.0	6431.5	5649.3	4781.6	3985.7	3249.0	2634.6	2100.5	1887.3	1742.7	1705.8
12.5°	6528.6	6076.8	5056.1	3944.6	2999.9	2111.1	1525.3	1192.8	1048.2	991.2	981.7
15°	6305.8	5745.3	4485.0	3186.7	2077.3	1299.4	970.0	857.1	823.3	813.8	813.8
17.5°	6095.8	5429.7	3926.6	2440.4	1374.3	910.9	803.3	777.9	767.4	766.3	767.4
20°	5876.2	5114.1	3377.8	1788.1	959.5	771.6	742.0	728.3	725.2	725.2	725.2
22.5°	5666.2	4798.5	2843.6	1277.2	769.5	704.1	689.3	679.8	676.6	675.6	673.4
25°	5464.6	4498.7	2322.2	902.5	675.6	644.9	632.3	619.6	610.1	604.8	601.7
27.5°	5298.8	4231.7	1836.7	724.1	610.1	583.7	567.9	548.9	525.7	515.1	510.9
30°	5166.9	3987.9	1415.5	611.2	548.9	522.5	498.2	465.5	431.7	413.8	412.7
32.5°	5063.5	3748.2	1074.5	540.4	494.0	461.3	426.4	385.3	346.2	326.2	325.1
35°	5012.8	3537.1	821.2	488.7	445.4	404.3	361.0	315.6	277.6	258.6	256.5
37.5°	5046.6	3358.8	640.7	445.4	404.3	356.8	306.1	258.6	224.8	207.9	206.9
40°	5170.1	3244.8	520.4	408.5	369.4	311.4	256.5	212.2	183.7	169.9	168.9
42.5°	5432.9	3202.5	444.4	377.9	335.7	269.2	213.2	175.2	148.8	139.3	137.2
45°	5872.0	3264.8	392.7	348.3	300.8	229.1	176.3	143.6	120.3	112.9	111.9
47.5°	6456.8	3428.4	355.7	319.8	269.2	193.2	146.7	116.1	98.2	90.8	89.7
50°	7210.4	3688.1	325.1	291.3	239.6	163.6	121.4	91.8	76.0	70.7	70.7
52.5°	8030.6	3997.4	297.7	264.9	210.1	136.2	98.2	70.7	60.2	53.8	53.8
55°	8708.3	4267.6	268.1	244.9	174.2	112.9	74.9	53.8	44.3	41.2	41.2
57.5°	9384.9	4555.7	234.3	210.1	139.3	91.8	57.0	40.1	32.7	30.6	30.6
60°	10262.0	4908.3	201.6	171.0	109.8	69.7	42.2	28.5	24.3	23.2	23.2
62.5°	11226.8	5115.2	172.1	137.2	85.5	51.7	30.6	19.0	17.9	17.9	16.9
65°	11816.9	4822.8	144.6	109.8	66.5	39.1	20.1	13.7	15.8	14.8	12.7
67.5°	11064.2	3775.7	118.2	85.5	51.7	29.6	12.7	9.5	16.9	13.7	10.6
70°	9161.1	2643.1	91.8	60.2	41.2	25.3	8.4	6.3	17.9	13.7	8.4
72.5°	6855.8	1769.1	72.8	40.1	30.6	22.2	7.4	3.2	15.8	11.6	7.4
75°	3746.1	712.5	58.1	25.3	19.0	15.8	5.3	2.1	10.6	8.4	5.3
77.5°	985.9	187.9	42.2	16.9	10.6	6.3	3.2	1.1	5.3	4.2	2.1
80°	251.2	72.8	27.4	11.6	7.4	3.2	0.0	0.0	1.1	0.0	0.0
82.5°	134.1	30.6	16.9	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	101.3	20.1	9.5	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	39.1	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)