

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: P323651

Luminaire Tested: **GLEON-SA7C-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323651
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-SA7C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 31420 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

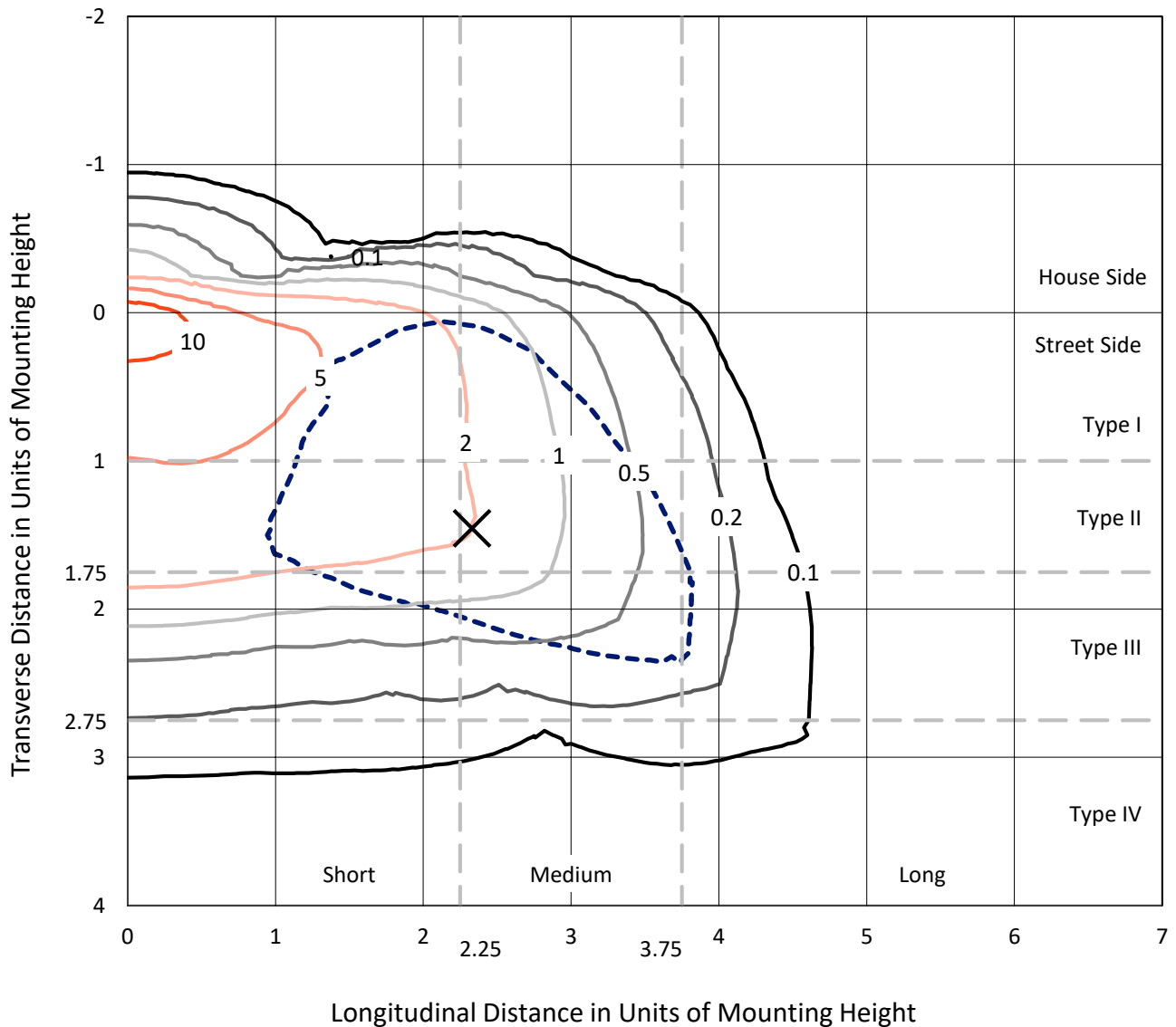




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Iso-Footcandle Lines of Horizontal Illumination

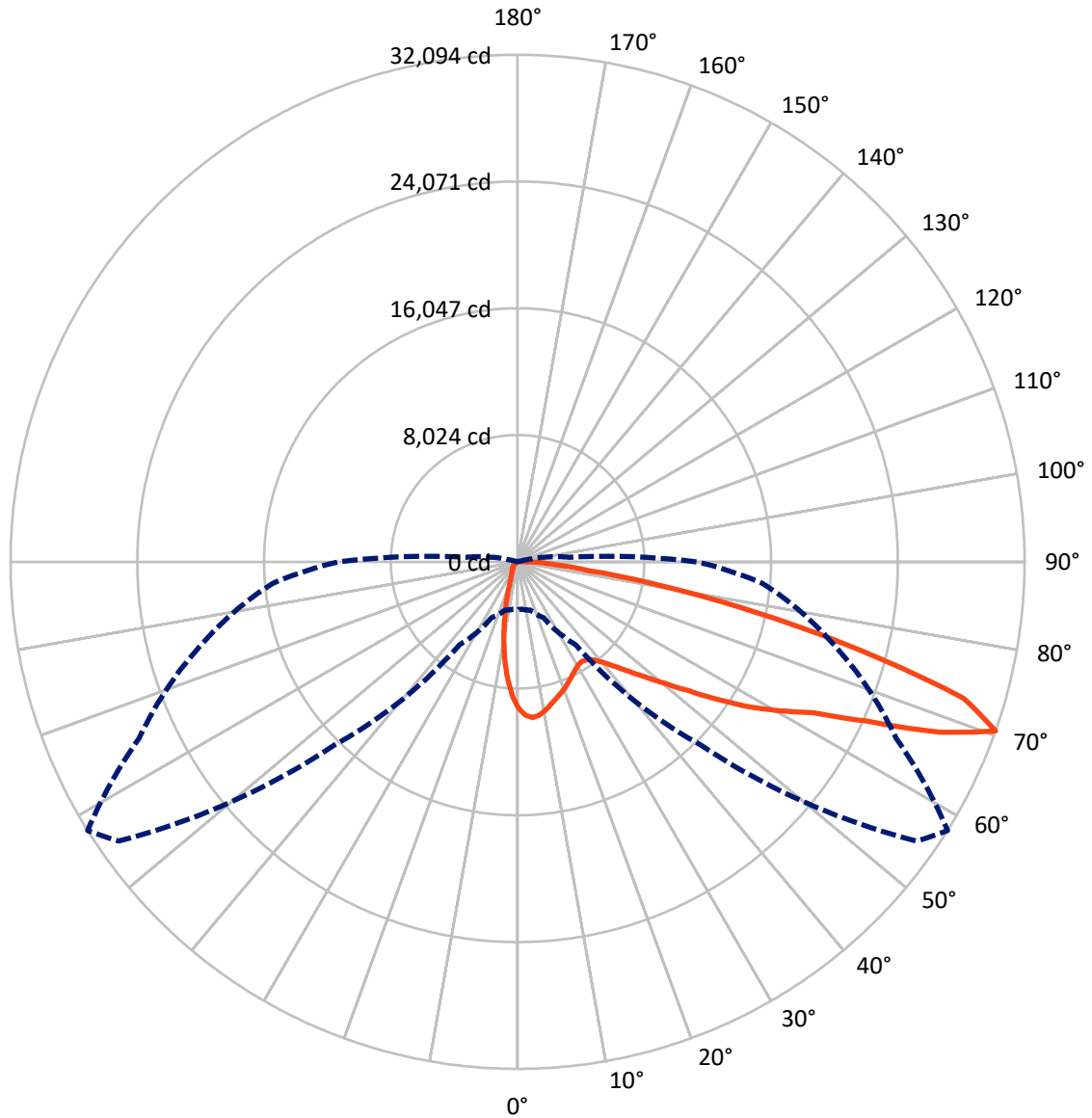
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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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	2688.9	0.0	2688.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	28731.1	0.0	28731.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	31420.0	0.0	31420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.0	2.4
10°-20°	1592.9	5.1
20°-30°	2094.1	6.7
30°-40°	2773.4	8.8
40°-50°	4145.4	13.2
50°-60°	6640.8	21.1
60°-70°	8370.7	26.6
70°-80°	4515.1	14.4
80°-90°	528.5	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°	31420.0	100.0
0°-180°	31420.0	100.0

Coefficient of Utilization

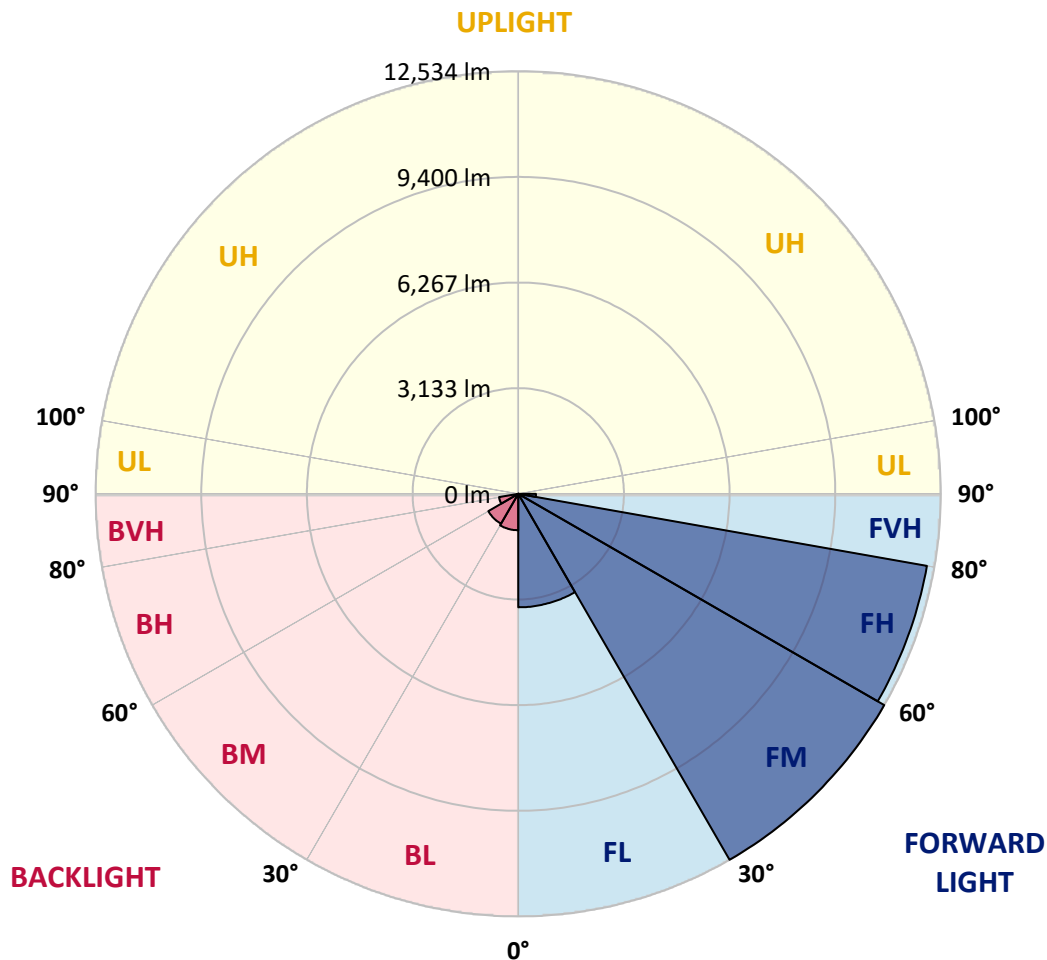


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3365.7	10.7			
FM (30°-60°)	12533.9	39.9			
FH (60°-80°)	12307.6	39.2			G5
FVH (80°-90°)	523.9	1.7			G4/750
BL (0°-30°)	1080.3	3.4	B3/2500		
BM (30°-60°)	1025.8	3.3	B2/2500		
BH (60°-80°)	578.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3
2.5°	10050.8	10026.0	10016.9	10001.2	9941.1	9882.3	9766.0	9733.4	9660.2	9486.4	9302.2
5°	10058.7	10057.4	10084.8	10078.3	10057.4	10029.9	9946.3	9903.2	9779.1	9530.9	9193.8
7.5°	9574.0	9598.8	9660.2	9709.8	9767.3	9841.8	9852.3	9810.4	9708.5	9440.7	8993.9
10°	8923.3	8962.5	9048.8	9146.8	9297.0	9445.9	9579.2	9574.0	9538.7	9274.8	8753.5
12.5°	8271.4	8317.1	8416.4	8561.4	8774.4	9017.4	9255.2	9287.9	9346.6	9125.8	8531.4
15°	7700.5	7739.7	7837.6	8015.3	8279.2	8605.9	8954.7	9014.8	9166.3	9009.6	8345.9
17.5°	7215.8	7240.6	7312.4	7509.7	7815.4	8211.3	8664.7	8782.2	9008.3	8918.1	8185.2
20°	6877.4	6881.3	6928.3	7066.8	7372.5	7815.4	8364.2	8532.7	8841.0	8839.7	8019.2
22.5°	6710.1	6697.1	6706.2	6785.9	7010.6	7437.9	8063.7	8263.6	8690.8	8773.1	7850.7
25°	6678.8	6668.3	6642.2	6652.7	6788.5	7107.3	7760.6	7991.8	8558.8	8732.6	7704.4
27.5°	6776.8	6787.2	6742.8	6695.8	6706.2	6893.1	7491.4	7759.3	8451.7	8732.6	7601.2
30°	6974.1	6979.3	6946.6	6885.2	6802.9	6833.0	7304.6	7572.4	8398.1	8792.7	7535.8
32.5°	7192.2	7221.0	7217.1	7167.4	7049.8	6928.3	7260.2	7504.5	8394.2	8926.0	7529.3
35°	7462.7	7495.3	7550.2	7539.8	7417.0	7217.1	7411.7	7603.8	8471.3	9145.4	7599.9
37.5°	7750.1	7799.8	7917.3	7973.5	7893.8	7667.8	7751.4	7888.6	8677.7	9500.8	7778.9
40°	8028.4	8084.6	8298.8	8519.6	8459.5	8227.0	8266.2	8375.9	9044.8	10011.6	8118.5
42.5°	8301.5	8385.1	8699.9	9063.1	9135.0	8949.5	8970.4	9057.9	9589.7	10714.5	8673.8
45°	8628.1	8722.1	9188.6	9636.7	9828.7	9747.7	9836.6	9894.1	10301.7	11643.5	9422.4
47.5°	9107.6	9216.0	9788.2	10299.1	10636.2	10688.4	10867.4	10905.3	11201.9	12725.2	10398.4
50°	10043.0	10073.1	10590.4	11054.2	11540.2	11853.8	12057.6	12086.4	12291.5	13907.6	11617.3
52.5°	11220.2	11239.8	11532.4	11843.4	12396.0	13036.2	13513.0	13553.5	13596.7	15059.9	12820.6
55°	12389.5	12386.9	12580.2	12763.1	13395.5	14325.7	15360.4	15385.3	15075.6	16153.5	13740.4
57.5°	13119.8	13190.3	13484.3	13719.5	14602.7	15795.5	17231.3	17322.8	16629.0	16963.5	14649.7
60°	12887.2	12921.2	13573.1	14443.3	16106.4	17884.6	19124.4	19147.9	17797.0	17772.2	15799.4
62.5°	10979.8	10998.0	12022.3	13816.2	16868.1	20594.2	21408.2	21025.4	19140.1	18894.5	17175.1
65°	7525.4	7644.3	8500.0	10717.2	15468.9	22294.0	24943.5	24309.9	21187.4	20511.9	18418.9
67.5°	4431.6	4406.8	4830.1	6463.2	11361.3	21165.2	29415.7	28785.9	23979.4	21595.0	18054.4
70°	3027.1	3010.2	3172.2	3912.9	6413.6	16418.7	30822.8	32094.0	26444.7	20866.0	15538.1
72.5°	2160.9	2170.1	2409.2	3040.2	4026.6	9566.1	26506.1	29515.0	25672.6	18190.3	11810.7
75°	1467.2	1492.0	1834.3	2494.1	3530.1	4866.7	18809.6	22436.4	20905.2	13220.4	6788.5
77.5°	789.1	816.6	1220.3	2009.4	3191.8	3381.2	12099.4	15441.4	13131.6	5943.2	1967.6
80°	329.2	344.9	570.9	1460.7	2758.0	2969.7	7119.1	9363.6	5595.7	1171.9	439.0
82.5°	142.4	150.2	237.8	871.4	2061.6	2507.2	3769.2	4504.8	1695.8	257.4	220.8
85°	27.4	28.7	98.0	461.2	1315.6	1414.9	2443.1	2394.8	761.7	111.1	160.7
87.5°	0.0	0.0	23.5	145.0	386.7	770.8	1490.7	1472.4	258.7	53.6	60.1
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°	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3	9281.3
2.5°	9208.2	9118.0	8928.6	8694.7	8515.7	8318.4	8161.7	7963.1	7876.8	7880.8	7833.7
5°	9001.7	8816.2	8396.8	7867.7	7460.1	7039.4	6677.5	6316.9	6103.9	6034.7	5969.4
7.5°	8706.5	8412.5	7743.6	6928.3	6238.5	5564.3	4977.7	4461.7	4135.0	3975.7	3916.9
10°	8373.3	7960.5	6992.3	5918.4	4933.3	4021.4	3261.0	2599.9	2336.0	2157.0	2111.3
12.5°	8080.7	7521.5	6258.1	4882.4	3713.1	2613.0	1887.9	1476.3	1297.3	1226.8	1215.0
15°	7805.0	7111.2	5551.3	3944.3	2571.2	1608.3	1200.7	1060.9	1019.1	1007.3	1007.3
17.5°	7545.0	6720.6	4860.2	3020.6	1701.1	1127.5	994.2	962.9	949.8	948.5	949.8
20°	7273.2	6330.0	4180.8	2213.2	1187.6	955.0	918.5	901.5	897.6	897.6	897.6
22.5°	7013.2	5939.3	3519.7	1580.9	952.4	871.4	853.1	841.4	837.5	836.2	833.5
25°	6763.7	5568.3	2874.3	1117.1	836.2	798.3	782.6	766.9	755.2	748.6	744.7
27.5°	6558.6	5237.7	2273.3	896.3	755.2	722.5	702.9	679.4	650.6	637.6	632.3
30°	6395.3	4935.9	1752.0	756.5	679.4	646.7	616.7	576.2	534.4	512.1	510.8
32.5°	6267.2	4639.4	1330.0	668.9	611.4	570.9	527.8	476.9	428.5	403.7	402.4
35°	6204.5	4378.1	1016.5	604.9	551.3	500.4	446.8	390.6	343.6	320.1	317.5
37.5°	6246.3	4157.3	793.0	551.3	500.4	441.6	378.9	320.1	278.3	257.4	256.1
40°	6399.2	4016.2	644.1	505.6	457.3	385.4	317.5	262.6	227.3	210.3	209.0
42.5°	6724.5	3963.9	550.0	467.7	415.5	333.2	263.9	216.9	184.2	172.5	169.8
45°	7268.0	4041.0	486.0	431.1	372.4	283.5	218.2	177.7	148.9	139.8	138.5
47.5°	7991.8	4243.5	440.3	395.9	333.2	239.1	181.6	143.7	121.5	112.4	111.1
50°	8924.6	4564.9	402.4	360.6	296.6	202.5	150.2	113.7	94.1	87.5	87.5
52.5°	9939.8	4947.7	368.4	327.9	260.0	168.5	121.5	87.5	74.5	66.6	66.6
55°	10778.6	5282.1	331.8	303.1	215.6	139.8	92.8	66.6	54.9	51.0	51.0
57.5°	11616.0	5638.8	290.0	260.0	172.5	113.7	70.6	49.6	40.5	37.9	37.9
60°	12701.7	6075.2	249.5	211.7	135.9	86.2	52.3	35.3	30.0	28.7	28.7
62.5°	13895.8	6331.3	213.0	169.8	105.8	64.0	37.9	23.5	22.2	22.2	20.9
65°	14626.2	5969.4	179.0	135.9	82.3	48.3	24.8	17.0	19.6	18.3	15.7
67.5°	13694.6	4673.3	146.3	105.8	64.0	36.6	15.7	11.8	20.9	17.0	13.1
70°	11339.0	3271.5	113.7	74.5	51.0	31.4	10.5	7.8	22.2	17.0	10.5
72.5°	8485.7	2189.7	90.1	49.6	37.9	27.4	9.1	3.9	19.6	14.4	9.1
75°	4636.7	881.9	71.9	31.4	23.5	19.6	6.5	2.6	13.1	10.5	6.5
77.5°	1220.3	232.6	52.3	20.9	13.1	7.8	3.9	1.3	6.5	5.2	2.6
80°	310.9	90.1	34.0	14.4	9.1	3.9	0.0	0.0	1.3	0.0	0.0
82.5°	165.9	37.9	20.9	10.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	125.4	24.8	11.8	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	48.3	7.8	3.9	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)