

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: P383316

Luminaire Tested: **GLEON-SA6B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25699.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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: 24 FT

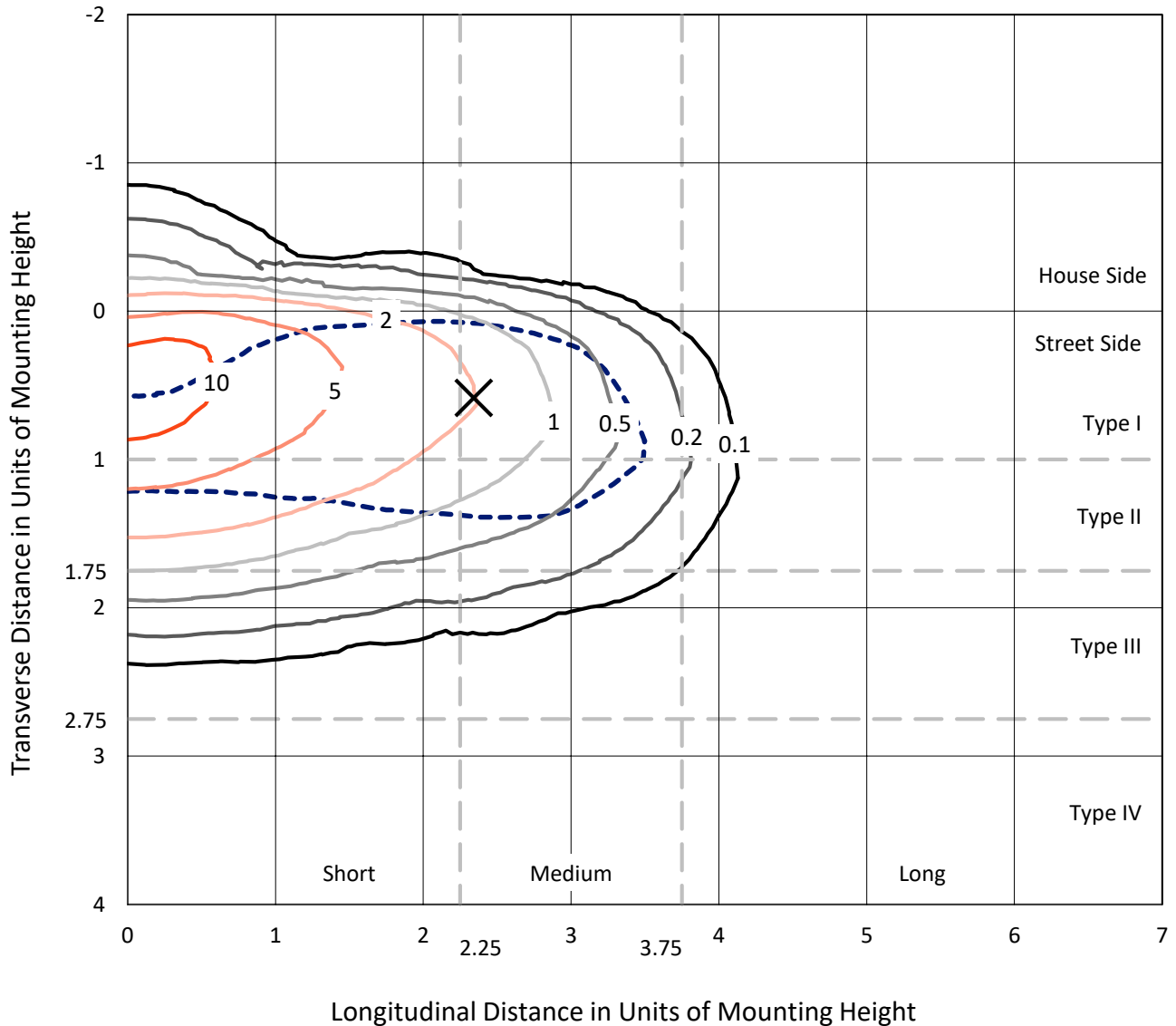




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Iso-Footcandle Lines of Horizontal Illumination

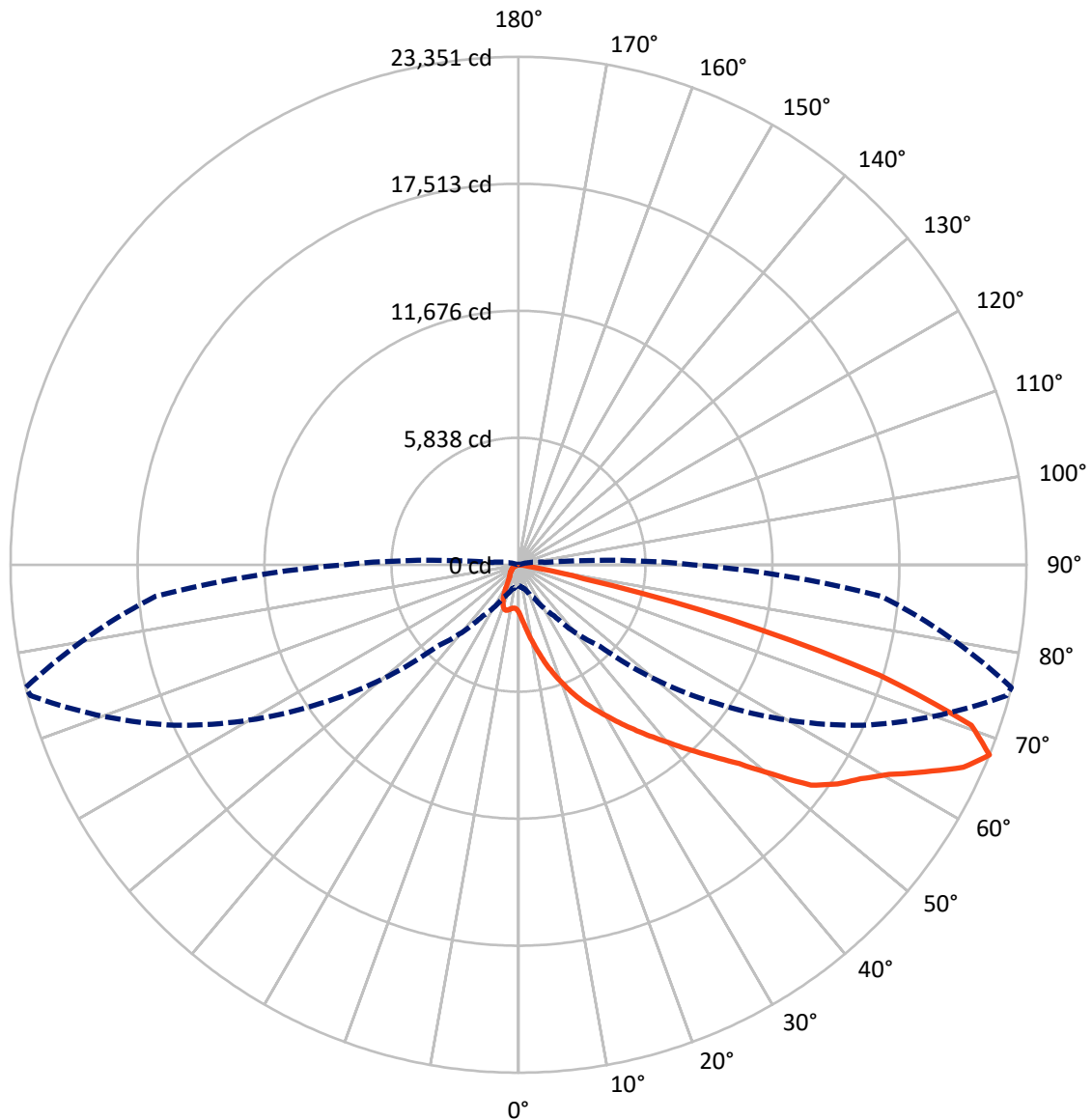
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1276.2	0.0	1276.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24423.4	0.0	24423.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	25699.5	0.0	25699.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.1	1.1
10°-20°	1074.6	4.2
20°-30°	2186.5	8.5
30°-40°	3795.1	14.8
40°-50°	5362.0	20.9
50°-60°	6080.7	23.7
60°-70°	5043.4	19.6
70°-80°	1826.9	7.1
80°-90°	59.2	0.2
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°	25699.5	100.0
0°-180°	25699.5	100.0

Coefficient of Utilization

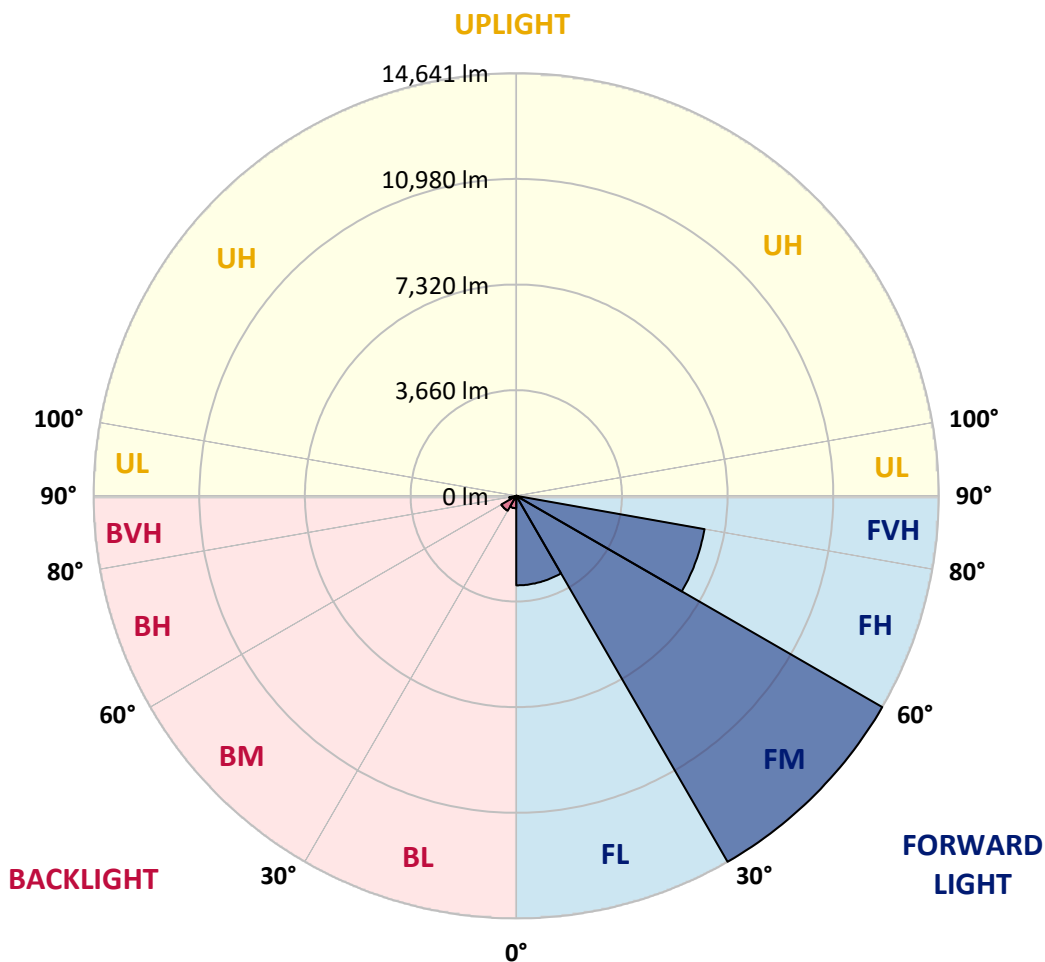


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3101.8	12.1			
FM (30°-60°)	14640.5	57.0			
FH (60°-80°)	6623.6	25.8			G3/7500
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	430.4	1.7	B1/500		
BM (30°-60°)	597.3	2.3	B1/1000		
BH (60°-80°)	246.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	3254.4	3181.1	3198.0	3150.8	3065.2	2889.5	2739.7	2597.8	2432.3	2426.7	2290.4
5°	4388.2	4326.4	4318.5	4222.7	4067.3	3768.9	3478.4	3147.3	2778.0	2751.0	2461.6
7.5°	5417.5	5367.9	5350.0	5236.2	4946.8	4656.2	4277.9	3791.5	3213.8	3164.3	2692.5
10°	6208.0	6184.4	6188.8	6107.8	5860.1	5589.8	5093.2	4472.7	3708.1	3631.5	2969.4
12.5°	6807.1	6812.7	6853.2	6803.7	6665.2	6464.8	5934.3	5199.1	4255.4	4150.7	3285.8
15°	7247.3	7275.5	7349.8	7411.8	7401.6	7228.3	6741.8	5936.7	4836.5	4720.4	3638.3
17.5°	7532.2	7563.8	7671.9	7809.3	7935.4	7894.9	7521.0	6648.3	5424.3	5290.3	4015.5
20°	7782.2	7819.4	7935.4	8116.7	8352.1	8402.7	8157.2	7338.5	6010.9	5847.7	4405.2
22.5°	8323.8	8322.7	8393.7	8499.5	8723.7	8854.3	8698.9	7979.3	6590.9	6420.9	4802.7
25°	9303.6	9266.4	9241.6	9158.3	9207.9	9288.9	9202.2	8578.3	7174.1	7001.9	5205.8
27.5°	10467.9	10490.4	10290.0	10065.9	9892.5	9809.2	9667.3	9133.5	7734.9	7545.8	5599.9
30°	11696.4	11703.2	11466.7	11180.7	10799.0	10482.5	10237.1	9663.9	8311.5	8105.4	5982.8
32.5°	12804.5	12760.6	12526.3	12136.8	11654.8	11298.9	10788.8	10256.2	8921.8	8722.5	6408.5
35°	13682.9	13631.1	13346.1	12991.5	12491.5	12133.4	11519.7	10847.4	9563.6	9368.9	6835.2
37.5°	14324.7	14263.9	13971.1	13606.3	13175.0	12966.7	12367.6	11490.4	10264.1	10054.7	7284.5
40°	14547.7	14494.7	14311.2	14044.3	13697.5	13650.2	13267.3	12230.2	11026.4	10803.4	7793.5
42.5°	14414.8	14363.0	14297.7	14207.6	14063.5	14108.5	14116.4	13073.6	11873.2	11653.7	8355.4
45°	13887.8	13841.6	13909.2	14040.9	14220.0	14442.9	14891.1	13980.1	12819.1	12584.9	9005.2
47.5°	13111.9	13078.2	13265.1	13593.9	14117.5	14732.3	15599.4	14932.8	13881.0	13663.7	9815.9
50°	12008.4	12002.7	12376.6	12976.8	13782.0	14872.0	16331.3	16016.0	15356.2	15127.6	10943.1
52.5°	10290.0	10301.2	11036.6	11997.1	13192.9	14777.3	16802.0	17407.8	17072.3	16834.7	11919.4
55°	8653.8	8721.4	9242.7	10627.8	12289.9	14426.0	16964.2	18057.6	18019.3	17794.1	12462.2
57.5°	7051.4	7174.1	7676.4	8970.2	10971.3	13616.4	16875.3	18339.1	18724.2	18552.0	13178.3
60°	5315.0	5371.3	5950.2	7159.5	9278.8	12139.0	16230.0	18492.2	19688.2	19568.7	14217.7
62.5°	3381.6	3522.4	4035.8	5202.4	7224.8	10087.3	15142.2	18490.0	20894.1	20959.4	15558.9
65°	1781.4	1945.8	2218.4	3223.9	4964.9	7795.7	13506.0	18316.6	22373.8	22465.0	16607.3
67.5°	960.5	1007.8	1152.0	1673.3	2879.3	5281.2	11101.9	17460.7	23230.7	23351.2	16753.6
70°	702.7	728.6	782.6	925.6	1449.2	3067.4	8100.9	15520.6	22126.1	22081.0	14885.5
72.5°	539.4	579.9	620.5	677.9	833.3	1637.3	5043.7	12153.6	17654.5	17357.2	11126.7
75°	425.6	432.4	489.8	541.6	625.0	932.4	2239.7	7078.5	10775.3	10071.5	5770.0
77.5°	340.1	344.6	378.4	423.4	502.2	612.6	693.6	2784.8	3440.1	3069.6	1252.2
80°	201.6	212.9	281.5	326.6	416.7	386.2	253.4	604.7	537.1	486.5	210.5
82.5°	112.6	121.7	158.7	257.9	290.5	184.6	126.1	163.3	126.1	122.8	59.7
85°	0.0	5.6	102.5	159.9	118.2	40.5	52.9	54.0	37.2	34.9	23.7
87.5°	0.0	0.0	31.5	30.4	4.5	6.8	12.4	18.0	14.6	14.6	12.4
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°	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1	2180.1
2.5°	2222.9	2162.0	2047.2	1934.5	1840.0	1762.3	1692.4	1664.3	1641.8	1638.4	1620.4
5°	2322.0	2199.2	1979.6	1799.5	1678.9	1593.4	1520.2	1475.1	1440.3	1426.8	1414.4
7.5°	2471.7	2285.9	1970.6	1763.4	1619.3	1475.1	1340.0	1193.6	1102.4	1067.6	1047.2
10°	2654.2	2400.8	2004.4	1753.3	1501.0	1197.0	972.9	787.2	711.7	686.9	680.1
12.5°	2866.9	2543.8	2062.9	1690.2	1248.8	850.2	671.2	608.1	591.2	583.3	583.3
15°	3111.3	2700.3	2104.6	1507.8	923.3	643.0	581.0	551.8	533.8	523.6	524.7
17.5°	3361.3	2853.4	2084.3	1243.2	681.2	572.1	525.9	494.4	469.6	459.4	457.2
20°	3613.6	2995.3	1971.7	925.6	576.5	519.2	467.4	432.4	407.6	397.5	395.3
22.5°	3874.8	3115.8	1773.6	679.0	518.0	460.6	409.9	374.9	351.3	342.3	337.8
25°	4129.3	3213.8	1496.5	549.5	462.8	405.4	357.0	324.3	302.9	293.9	292.8
27.5°	4366.9	3275.7	1175.6	485.3	414.4	355.9	311.9	282.6	264.7	257.9	256.7
30°	4580.9	3281.4	869.3	438.0	371.6	313.0	272.5	246.6	230.8	224.1	221.8
32.5°	4797.0	3234.1	632.9	395.3	332.2	275.9	236.5	216.2	204.9	199.4	199.4
35°	5000.8	3124.9	493.3	358.1	293.9	239.9	208.3	193.7	187.0	181.3	181.3
37.5°	5200.2	2968.3	418.9	325.4	257.9	209.4	183.5	174.6	168.9	163.3	163.3
40°	5402.9	2771.3	380.6	295.0	228.6	185.8	163.3	155.4	149.8	145.2	144.1
42.5°	5651.7	2543.8	355.9	266.9	202.7	164.4	144.1	135.2	130.6	126.1	123.9
45°	5940.0	2347.9	335.5	238.8	181.3	146.3	125.0	116.0	109.3	103.6	102.5
47.5°	6355.5	2206.0	308.5	208.3	161.1	127.2	108.1	98.0	87.8	82.2	81.0
50°	6885.9	2088.8	273.6	181.3	140.8	108.1	90.1	77.7	68.7	63.1	63.1
52.5°	7149.4	1935.7	242.1	157.6	118.2	91.2	73.2	58.6	54.0	48.4	48.4
55°	7255.3	1818.6	210.5	134.0	98.0	75.5	57.4	45.1	41.6	38.3	37.2
57.5°	7552.5	1784.8	183.5	113.7	81.0	59.7	43.9	33.8	31.5	27.0	27.0
60°	8031.2	1801.7	158.7	96.9	65.3	46.2	32.7	25.9	23.7	19.1	19.1
62.5°	8548.0	1780.3	134.0	83.4	50.7	33.8	22.5	19.1	19.1	11.3	10.2
65°	8647.1	1585.5	114.9	68.7	39.4	24.8	14.6	12.4	16.9	2.2	0.0
67.5°	8025.5	1229.6	99.1	52.9	29.3	19.1	11.3	5.6	14.6	0.0	0.0
70°	6417.4	781.5	79.9	38.3	22.5	15.7	9.0	2.2	11.3	0.0	0.0
72.5°	4538.0	453.8	63.1	27.0	19.1	12.4	6.8	0.0	6.8	0.0	0.0
75°	2295.0	242.1	39.4	20.3	14.6	9.0	4.5	0.0	1.1	0.0	0.0
77.5°	496.6	112.6	24.8	14.6	10.2	5.6	2.2	0.0	0.0	0.0	0.0
80°	108.1	49.6	15.7	9.0	5.6	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	39.4	25.9	7.9	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.4	13.5	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	4.5	1.1	1.1	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)