

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: P382924

Luminaire Tested: **GLEON-SA2D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382924
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-SA2D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 11937.8 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

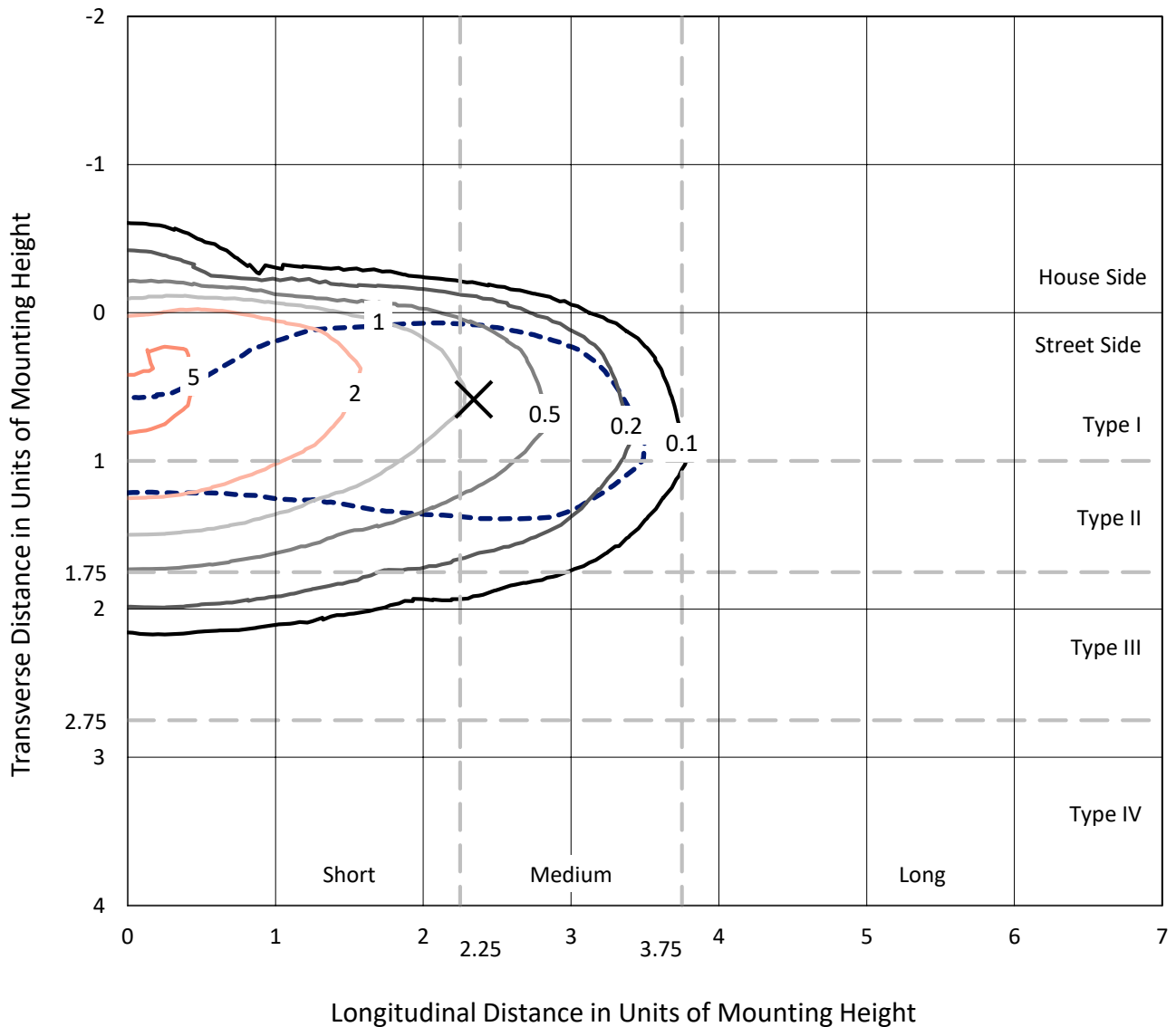
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

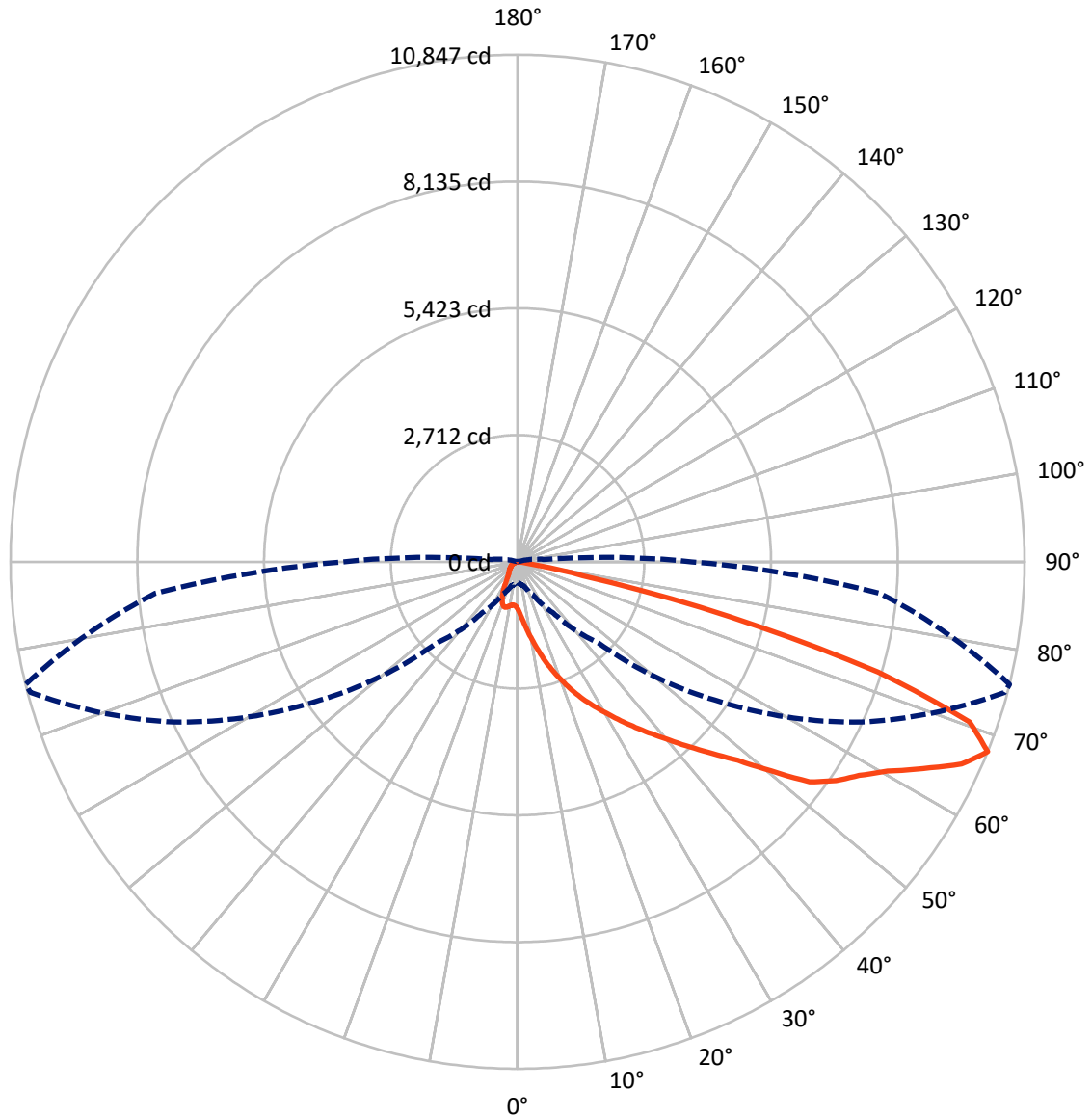
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	592.8	0.0	592.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11345.0	0.0	11345.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	11937.8	0.0	11937.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.1
10°-20°	499.2	4.2
20°-30°	1015.7	8.5
30°-40°	1762.9	14.8
40°-50°	2490.7	20.9
50°-60°	2824.6	23.7
60°-70°	2342.7	19.6
70°-80°	848.6	7.1
80°-90°	27.5	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°	11937.8	100.0
0°-180°	11937.8	100.0

Coefficient of Utilization



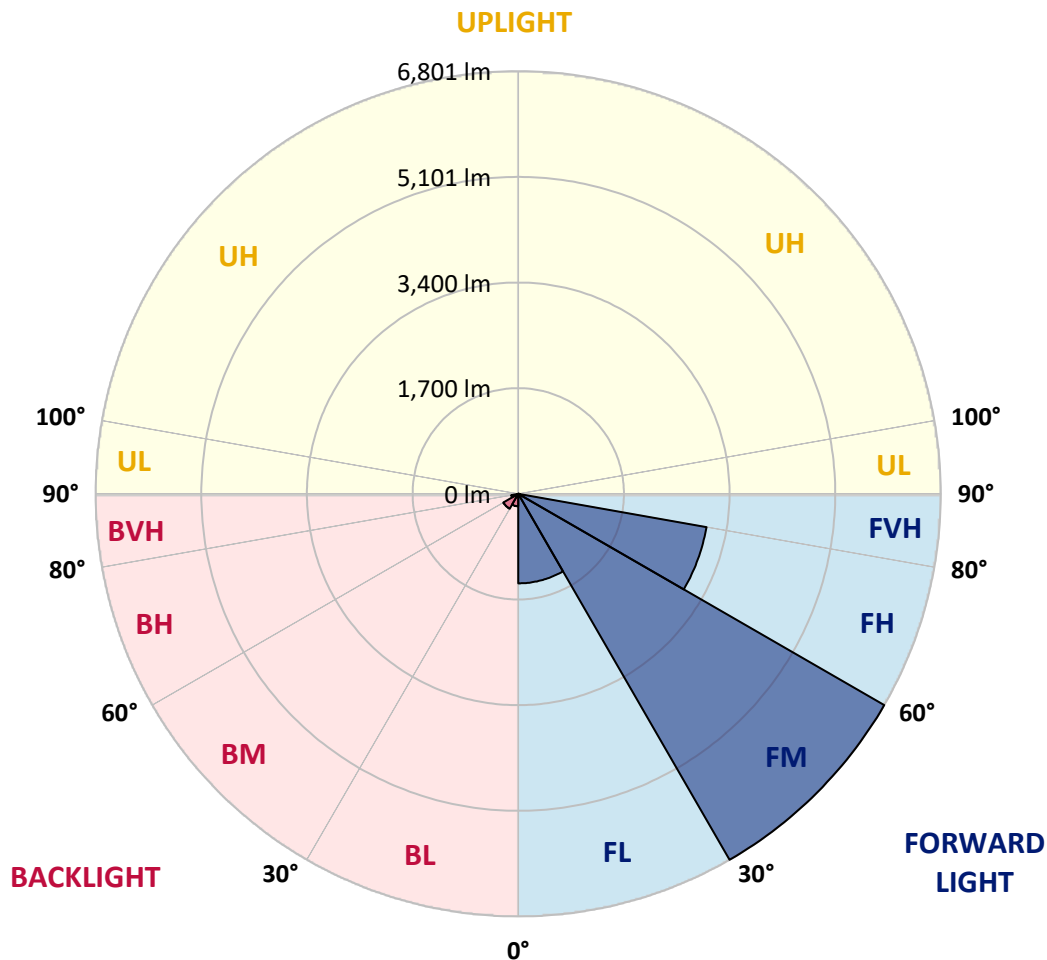
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.9	12.1			
FM (30°-60°)	6800.7	57.0			
FH (60°-80°)	3076.8	25.8			G2/5000
FVH (80°-90°)	26.7	0.2			G1/100
BL (0°-30°)	199.9	1.7	B1/500		
BM (30°-60°)	277.5	2.3	B1/1000		
BH (60°-80°)	114.6	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1511.7	1477.7	1485.5	1463.6	1423.8	1342.2	1272.7	1206.7	1129.9	1127.3	1063.9
5°	2038.4	2009.6	2006.0	1961.6	1889.4	1750.8	1615.8	1462.0	1290.4	1277.9	1143.5
7.5°	2516.5	2493.5	2485.1	2432.3	2297.8	2162.9	1987.2	1761.2	1492.8	1469.8	1250.7
10°	2883.7	2872.7	2874.8	2837.1	2722.1	2596.5	2365.9	2077.6	1722.5	1686.9	1379.3
12.5°	3162.0	3164.6	3183.4	3160.4	3096.1	3002.9	2756.6	2415.0	1976.7	1928.0	1526.3
15°	3366.5	3379.6	3414.1	3442.9	3438.2	3357.6	3131.7	2757.7	2246.6	2192.7	1690.0
17.5°	3498.8	3513.5	3563.7	3627.5	3686.1	3667.2	3493.6	3088.3	2519.6	2457.4	1865.2
20°	3615.0	3632.2	3686.1	3770.3	3879.6	3903.2	3789.2	3408.9	2792.1	2716.3	2046.2
22.5°	3866.6	3866.0	3899.0	3948.2	4052.2	4113.0	4040.8	3706.5	3061.5	2982.5	2230.9
25°	4321.6	4304.4	4292.9	4254.2	4277.2	4314.8	4274.6	3984.8	3332.5	3252.5	2418.2
27.5°	4862.5	4872.9	4779.9	4675.7	4595.2	4556.5	4490.6	4242.6	3593.0	3505.1	2601.3
30°	5433.2	5436.3	5326.5	5193.6	5016.3	4869.3	4755.3	4489.0	3860.8	3765.0	2779.1
32.5°	5947.8	5927.4	5818.6	5637.7	5413.8	5248.5	5011.5	4764.1	4144.3	4051.8	2976.9
35°	6355.9	6331.8	6199.4	6034.7	5802.4	5636.1	5351.0	5038.7	4442.5	4352.0	3175.1
37.5°	6654.0	6625.7	6489.8	6320.3	6120.0	6023.2	5744.9	5337.4	4767.8	4670.5	3383.8
40°	6757.5	6733.0	6647.7	6523.8	6362.7	6340.7	6162.8	5681.1	5121.9	5018.3	3620.2
42.5°	6695.9	6671.8	6641.5	6599.6	6532.7	6553.6	6557.3	6072.9	5515.3	5413.3	3881.2
45°	6451.1	6429.6	6461.0	6522.2	6605.3	6708.9	6917.1	6493.9	5954.6	5845.8	4183.0
47.5°	6090.6	6075.0	6161.8	6314.5	6557.7	6843.3	7246.1	6936.5	6447.9	6347.0	4559.6
50°	5578.0	5575.4	5749.1	6027.9	6401.9	6908.3	7586.2	7439.7	7133.1	7026.9	5083.3
52.5°	4779.9	4785.1	5126.7	5572.8	6128.3	6864.3	7804.8	8086.2	7930.4	7820.0	5536.7
55°	4019.8	4051.2	4293.4	4936.7	5708.8	6701.1	7880.1	8388.0	8370.2	8265.6	5788.8
57.5°	3275.5	3332.5	3565.8	4166.8	5096.3	6325.0	7838.8	8518.8	8697.7	8617.7	6121.6
60°	2468.9	2495.1	2763.9	3325.7	4310.1	5638.8	7539.0	8589.9	9145.4	9089.9	6604.3
62.5°	1570.8	1636.2	1874.7	2416.6	3356.0	4685.7	7033.7	8588.9	9705.6	9736.0	7227.3
65°	827.5	903.9	1030.5	1497.6	2306.2	3621.2	6273.7	8508.3	10392.9	10435.3	7714.2
67.5°	446.2	468.2	535.1	777.3	1337.5	2453.2	5157.0	8110.8	10791.0	10846.9	7782.2
70°	326.4	338.4	363.5	430.0	673.2	1424.9	3763.0	7209.5	10277.9	10256.9	6914.5
72.5°	250.6	269.4	288.2	314.9	387.1	760.5	2342.8	5645.6	8200.8	8062.6	5168.5
75°	197.8	200.8	227.6	251.6	290.3	433.1	1040.4	3288.1	5005.3	4678.3	2680.2
77.5°	158.0	160.0	175.8	196.6	233.3	284.6	322.2	1293.5	1598.0	1425.9	581.7
80°	93.6	98.8	130.8	151.7	193.6	179.4	117.7	280.9	249.5	226.0	97.8
82.5°	52.4	56.5	73.8	119.8	135.0	85.8	58.6	75.8	58.6	57.0	27.8
85°	0.0	2.6	47.6	74.2	55.0	18.8	24.6	25.2	17.2	16.2	11.0
87.5°	0.0	0.0	14.6	14.2	2.0	3.2	5.8	8.4	6.8	6.8	5.8
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°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1032.5	1004.3	950.9	898.7	854.7	818.6	786.1	773.1	762.7	761.1	752.7
5°	1078.5	1021.5	919.5	835.9	779.9	740.1	706.1	685.2	669.0	662.7	657.0
7.5°	1148.1	1061.9	915.3	819.1	752.2	685.2	622.5	554.5	512.1	495.9	486.5
10°	1232.9	1115.2	931.1	814.5	697.3	556.0	451.9	365.6	330.6	319.1	316.0
12.5°	1331.7	1181.7	958.3	785.1	580.1	394.9	311.8	282.4	274.6	271.0	271.0
15°	1445.3	1254.3	977.7	700.4	428.9	298.7	269.9	256.3	248.0	243.2	243.8
17.5°	1561.4	1325.5	968.3	577.5	316.4	265.7	244.3	229.6	218.1	213.4	212.4
20°	1678.6	1391.4	915.9	430.0	267.8	241.2	217.1	200.8	189.4	184.6	183.6
22.5°	1799.9	1447.3	823.9	315.4	240.6	214.0	190.4	174.2	163.2	159.0	157.0
25°	1918.1	1492.8	695.1	255.2	215.0	188.3	165.8	150.6	140.7	136.6	136.0
27.5°	2028.4	1521.6	546.1	225.4	192.5	165.3	144.9	131.3	123.0	119.8	119.2
30°	2127.8	1524.2	403.8	203.4	172.6	145.4	126.6	114.6	107.2	104.1	103.0
32.5°	2228.3	1502.3	294.0	183.6	154.3	128.2	109.8	100.4	95.2	92.6	92.6
35°	2323.0	1451.5	229.1	166.4	136.6	111.4	96.8	90.0	86.8	84.2	84.2
37.5°	2415.6	1378.8	194.6	151.2	119.8	97.3	85.2	81.0	78.4	75.8	75.8
40°	2509.7	1287.3	176.8	137.0	106.2	86.3	75.8	72.2	69.6	67.4	67.0
42.5°	2625.3	1181.7	165.3	124.0	94.2	76.4	67.0	62.8	60.6	58.6	57.6
45°	2759.2	1090.6	155.8	110.9	84.2	68.0	58.0	53.8	50.8	48.2	47.6
47.5°	2952.3	1024.7	143.4	96.8	74.8	59.2	50.2	45.6	40.8	38.2	37.6
50°	3198.6	970.3	127.1	84.2	65.4	50.2	41.8	36.1	32.0	29.3	29.3
52.5°	3321.0	899.1	112.4	73.2	55.0	42.4	34.0	27.2	25.2	22.5	22.5
55°	3370.2	844.7	97.8	62.2	45.6	35.0	26.6	21.0	19.4	17.8	17.2
57.5°	3508.2	829.1	85.2	52.8	37.6	27.8	20.4	15.6	14.6	12.6	12.6
60°	3730.6	836.9	73.8	45.0	30.4	21.4	15.2	12.0	11.0	8.8	8.8
62.5°	3970.6	826.9	62.2	38.8	23.6	15.6	10.4	8.8	8.8	5.2	4.8
65°	4016.6	736.5	53.4	32.0	18.4	11.6	6.8	5.8	7.8	1.0	0.0
67.5°	3728.0	571.2	46.0	24.6	13.6	8.8	5.2	2.6	6.8	0.0	0.0
70°	2981.0	363.0	37.2	17.8	10.4	7.4	4.2	1.0	5.2	0.0	0.0
72.5°	2108.0	210.8	29.3	12.6	8.8	5.8	3.2	0.0	3.2	0.0	0.0
75°	1066.1	112.4	18.4	9.4	6.8	4.2	2.0	0.0	0.6	0.0	0.0
77.5°	230.7	52.4	11.6	6.8	4.8	2.6	1.0	0.0	0.0	0.0	0.0
80°	50.2	23.0	7.4	4.2	2.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	12.0	3.6	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	6.2	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.0	0.6	0.6	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)