

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: P382980

Luminaire Tested: **GLEON-SA3B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382980
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-SA3B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 13118 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

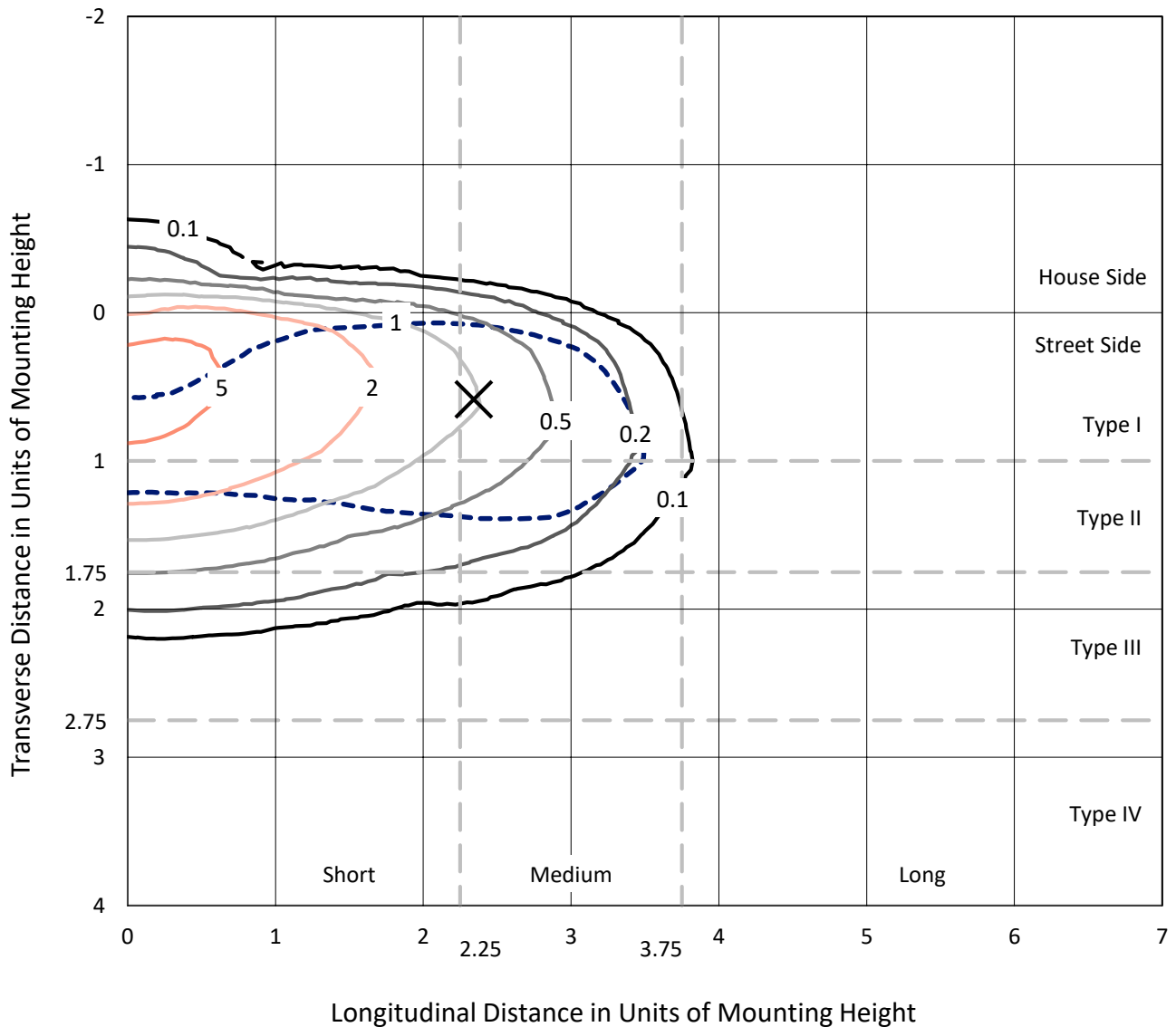
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

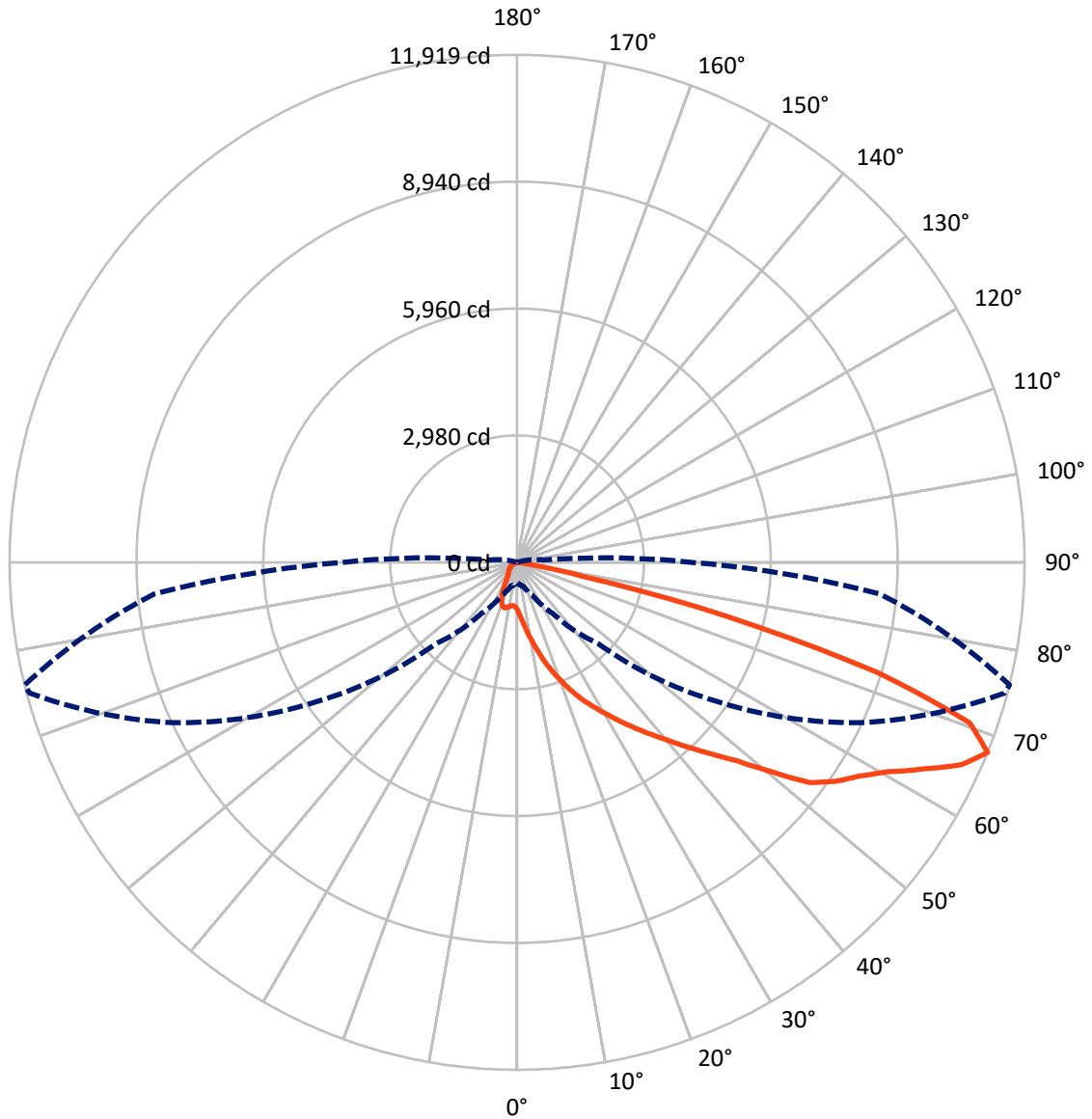
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	651.4	0.0	651.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12466.6	0.0	12466.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	13118.0	0.0	13118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.1
10°-20°	548.5	4.2
20°-30°	1116.1	8.5
30°-40°	1937.2	14.8
40°-50°	2737.0	20.9
50°-60°	3103.8	23.7
60°-70°	2574.3	19.6
70°-80°	932.5	7.1
80°-90°	30.2	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°	13118.0	100.0
0°-180°	13118.0	100.0

Coefficient of Utilization

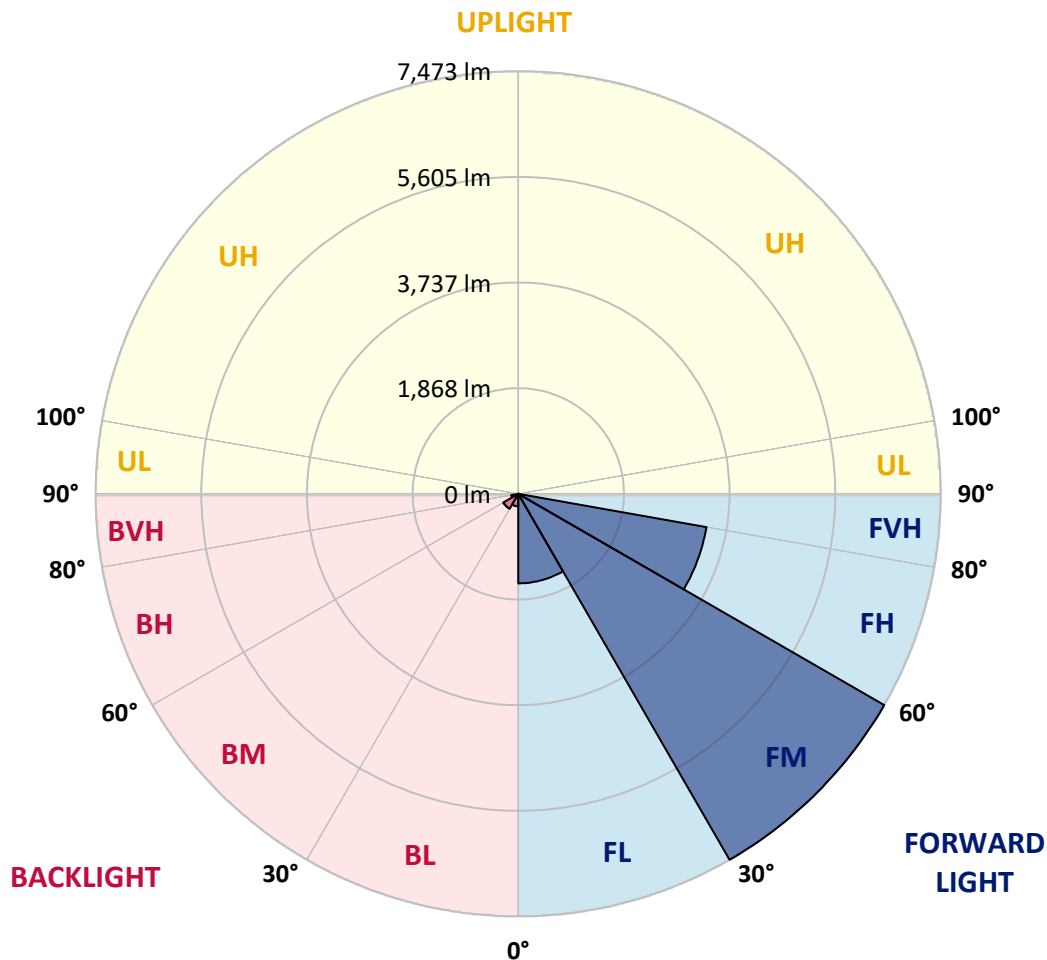


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1583.3	12.1			
FM (30°-60°)	7473.1	57.0			
FH (60°-80°)	3381.0	25.8			G2/5000
FVH (80°-90°)	29.3	0.2			G1/100
BL (0°-30°)	219.7	1.7	B1/500		
BM (30°-60°)	304.9	2.3	B1/1000		
BH (60°-80°)	125.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1661.1	1623.8	1632.4	1608.2	1564.5	1474.9	1398.4	1326.1	1241.6	1238.7	1169.1
5°	2239.9	2208.3	2204.3	2155.4	2076.1	1923.8	1775.5	1606.5	1418.0	1404.2	1256.5
7.5°	2765.3	2740.1	2730.8	2672.8	2525.1	2376.8	2183.6	1935.3	1640.5	1615.1	1374.3
10°	3168.8	3156.7	3159.1	3117.6	2991.2	2853.2	2599.8	2283.0	1892.8	1853.7	1515.7
12.5°	3474.6	3477.5	3498.1	3472.9	3402.2	3299.8	3029.1	2653.8	2172.1	2118.7	1677.3
15°	3699.4	3713.7	3751.6	3783.3	3778.1	3689.6	3441.2	3030.3	2468.7	2409.5	1857.1
17.5°	3844.8	3860.9	3916.0	3986.2	4050.6	4029.9	3839.0	3393.5	2768.7	2700.4	2049.7
20°	3972.4	3991.3	4050.6	4143.1	4263.2	4289.0	4163.7	3745.9	3068.2	2984.9	2248.6
22.5°	4248.9	4248.2	4284.5	4338.5	4452.9	4519.6	4440.2	4072.9	3364.3	3277.5	2451.5
25°	4748.9	4729.9	4717.3	4674.8	4700.0	4741.4	4697.1	4378.7	3662.0	3574.1	2657.2
27.5°	5343.3	5354.7	5252.4	5138.0	5049.5	5007.0	4934.6	4662.1	3948.2	3851.7	2858.5
30°	5970.3	5973.7	5853.1	5707.0	5512.2	5350.7	5225.4	4932.8	4242.5	4137.3	3053.9
32.5°	6535.9	6513.5	6394.0	6195.1	5949.0	5767.4	5507.0	5235.2	4554.1	4452.3	3271.1
35°	6984.3	6957.8	6812.4	6631.3	6376.2	6193.4	5880.1	5536.9	4881.7	4782.3	3488.9
37.5°	7311.9	7280.9	7131.4	6945.2	6725.0	6618.6	6312.9	5865.1	5239.2	5132.3	3718.3
40°	7425.7	7398.7	7305.0	7168.7	6991.7	6967.6	6772.2	6242.8	5628.3	5514.5	3978.1
42.5°	7357.8	7331.5	7298.1	7252.1	7178.5	7201.5	7205.5	6673.3	6060.6	5948.5	4264.9
45°	7088.9	7065.3	7099.8	7167.0	7258.4	7372.3	7601.0	7136.0	6543.4	6423.9	4596.6
47.5°	6692.8	6675.6	6771.0	6938.8	7206.1	7519.9	7962.6	7622.3	7085.4	6974.5	5010.4
50°	6129.6	6126.7	6317.5	6623.9	7034.9	7591.3	8336.1	8175.3	7838.4	7721.7	5585.8
52.5°	5252.4	5258.1	5633.5	6123.8	6734.3	7542.9	8576.4	8885.7	8714.3	8593.1	6084.1
55°	4417.2	4451.8	4717.8	5424.9	6273.2	7363.6	8659.2	9217.3	9197.7	9082.8	6361.2
57.5°	3599.3	3662.0	3918.4	4578.7	5600.2	6950.4	8613.7	9361.0	9557.6	9469.6	6726.7
60°	2713.0	2741.7	3037.2	3654.5	4736.3	6196.2	8284.4	9439.2	10049.6	9988.7	7257.3
62.5°	1726.1	1798.0	2060.0	2655.6	3687.8	5148.9	7729.1	9438.1	10665.2	10698.5	7941.8
65°	909.3	993.2	1132.3	1645.6	2534.3	3979.3	6894.0	9349.5	11420.5	11467.1	8477.0
67.5°	490.3	514.4	588.0	854.1	1469.7	2695.7	5666.9	8912.7	11857.9	11919.4	8551.7
70°	358.6	371.9	399.4	472.5	739.7	1565.7	4135.0	7922.3	11294.0	11271.1	7598.2
72.5°	275.4	296.0	316.7	346.0	425.3	835.8	2574.5	6203.7	9011.5	8859.8	5679.5
75°	217.2	220.7	250.0	276.5	319.0	475.9	1143.3	3613.1	5500.1	5140.9	2945.2
77.5°	173.5	175.9	193.1	216.1	256.4	312.7	354.1	1421.4	1756.0	1566.9	639.1
80°	102.8	108.6	143.7	166.7	212.7	197.1	129.3	308.6	274.2	248.4	107.5
82.5°	57.5	62.0	81.0	131.6	148.3	94.3	64.4	83.4	64.4	62.7	30.5
85°	0.0	2.9	52.3	81.6	60.4	20.7	27.0	27.6	19.0	17.8	12.1
87.5°	0.0	0.0	16.1	15.6	2.3	3.4	6.3	9.2	7.5	7.5	6.3
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°	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1134.6	1103.6	1045.0	987.4	939.2	899.5	863.9	849.6	838.0	836.3	827.1
5°	1185.2	1122.6	1010.4	918.5	857.0	813.3	776.0	753.0	735.2	728.3	721.9
7.5°	1261.7	1166.9	1005.9	900.2	826.6	753.0	684.0	609.2	562.7	544.9	534.5
10°	1354.7	1225.5	1023.1	894.9	766.2	611.0	496.6	401.8	363.3	350.6	347.2
12.5°	1463.4	1298.5	1053.0	862.8	637.5	434.0	342.5	310.4	301.7	297.7	297.7
15°	1588.1	1378.3	1074.3	769.6	471.4	328.2	296.6	281.6	272.5	267.3	267.8
17.5°	1715.7	1456.5	1063.9	634.6	347.7	291.9	268.5	252.4	239.7	234.5	233.4
20°	1844.5	1528.9	1006.4	472.5	294.3	264.9	238.6	220.7	208.1	202.9	201.8
22.5°	1977.9	1590.4	905.3	346.6	264.4	235.1	209.2	191.4	179.3	174.8	172.4
25°	2107.7	1640.5	763.9	280.5	236.2	206.9	182.2	165.5	154.6	150.0	149.4
27.5°	2229.0	1672.0	600.1	247.7	211.6	181.7	159.2	144.3	135.1	131.6	131.1
30°	2338.3	1674.9	443.7	223.6	189.7	159.8	139.1	125.9	117.8	114.4	113.3
32.5°	2448.6	1650.8	323.1	201.8	169.5	140.8	120.7	110.4	104.6	101.7	101.7
35°	2552.6	1595.0	251.8	182.8	150.0	122.4	106.3	98.8	95.4	92.5	92.5
37.5°	2654.4	1515.2	213.8	166.1	131.6	106.9	93.7	89.1	86.3	83.4	83.4
40°	2757.8	1414.6	194.3	150.6	116.7	94.8	83.4	79.3	76.5	74.2	73.6
42.5°	2884.9	1298.5	181.7	136.2	103.5	83.9	73.6	68.9	66.7	64.4	63.3
45°	3032.0	1198.4	171.3	121.8	92.5	74.7	63.8	59.2	55.8	52.9	52.3
47.5°	3244.1	1126.1	157.5	106.3	82.2	64.9	55.1	50.0	44.8	41.9	41.4
50°	3514.8	1066.2	139.6	92.5	71.8	55.1	46.0	39.7	35.0	32.2	32.2
52.5°	3649.3	988.1	123.6	80.5	60.4	46.6	37.4	29.9	27.6	24.7	24.7
55°	3703.4	928.3	107.5	68.4	50.0	38.5	29.3	23.0	21.2	19.6	19.0
57.5°	3855.1	911.1	93.7	58.0	41.4	30.5	22.5	17.2	16.1	13.8	13.8
60°	4099.4	919.6	81.0	49.5	33.3	23.6	16.7	13.2	12.1	9.8	9.8
62.5°	4363.2	908.7	68.4	42.6	25.9	17.2	11.5	9.8	9.8	5.8	5.2
65°	4413.8	809.3	58.6	35.0	20.1	12.7	7.5	6.3	8.7	1.1	0.0
67.5°	4096.5	627.7	50.6	27.0	14.9	9.8	5.8	2.9	7.5	0.0	0.0
70°	3275.7	398.9	40.8	19.6	11.5	8.0	4.6	1.1	5.8	0.0	0.0
72.5°	2316.4	231.7	32.2	13.8	9.8	6.3	3.4	0.0	3.4	0.0	0.0
75°	1171.4	123.6	20.1	10.3	7.5	4.6	2.3	0.0	0.6	0.0	0.0
77.5°	253.5	57.5	12.7	7.5	5.2	2.9	1.1	0.0	0.0	0.0	0.0
80°	55.1	25.2	8.0	4.6	2.9	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	20.1	13.2	4.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	6.9	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.3	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)