

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: P382952

Luminaire Tested: **GLEON-SA3A-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382952
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-SA3A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 10698.8 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

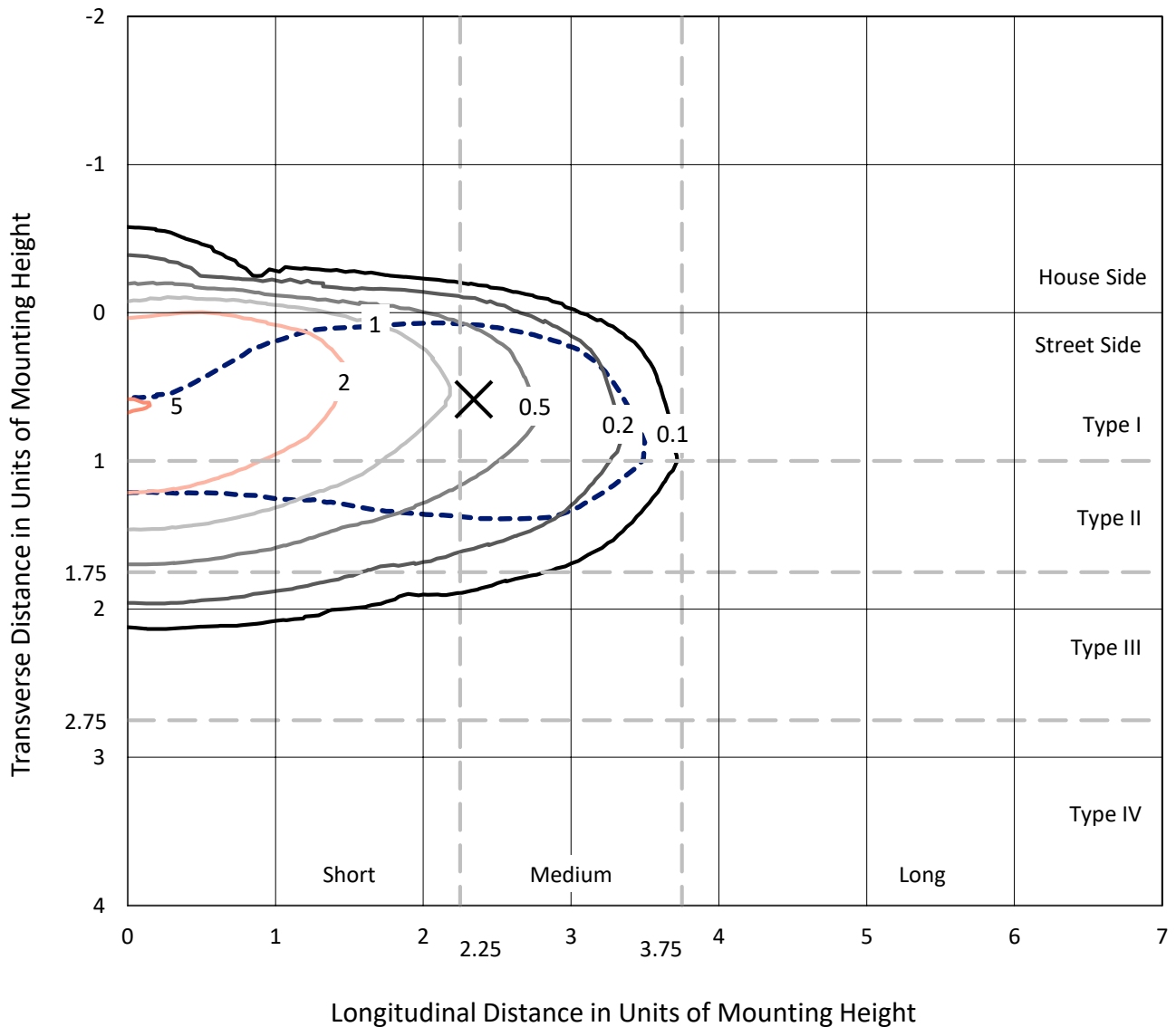
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

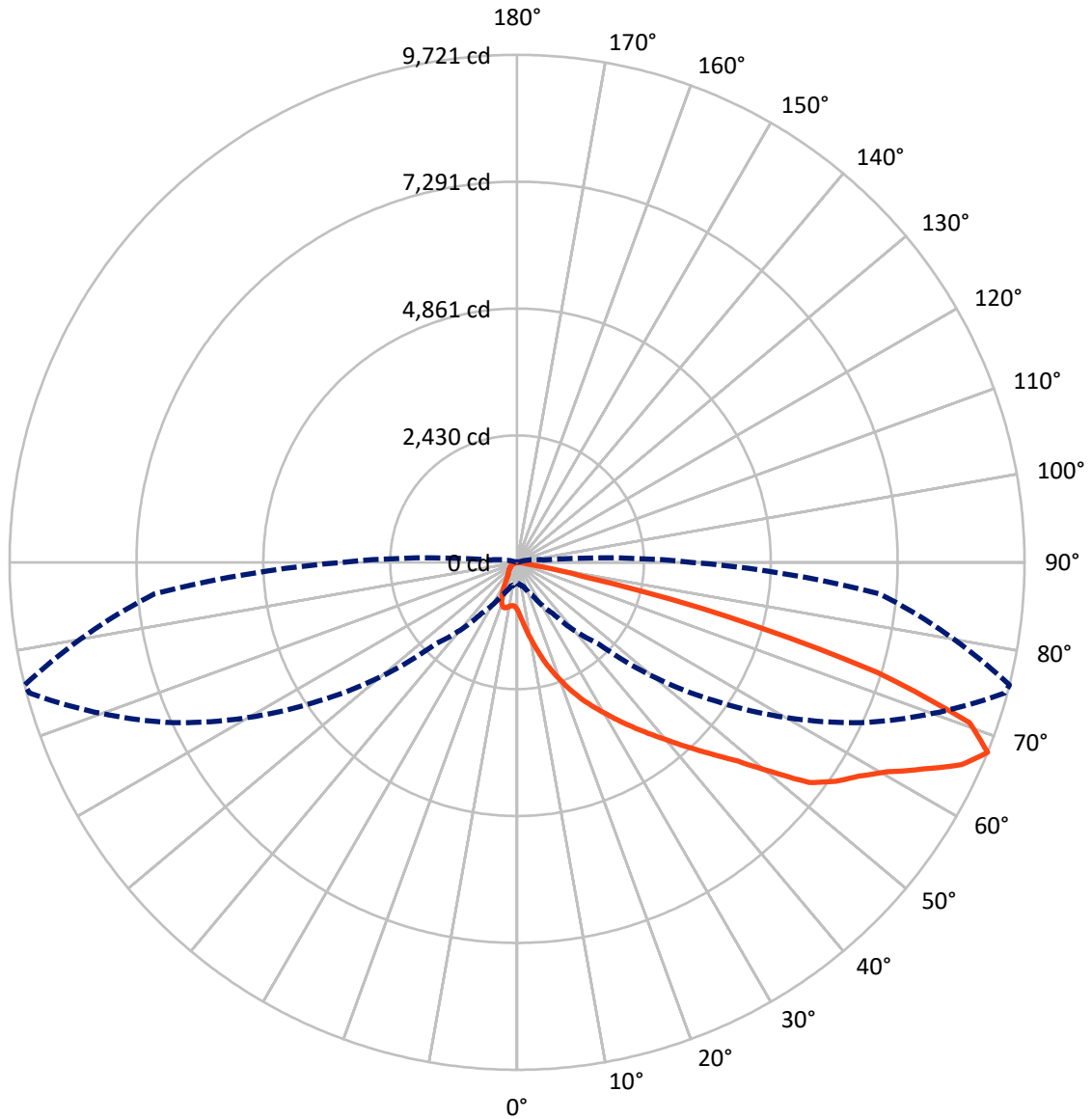
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	531.3	0.0	531.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10167.6	0.0	10167.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	10698.8	0.0	10698.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.1
10°-20°	447.4	4.2
20°-30°	910.3	8.5
30°-40°	1579.9	14.8
40°-50°	2232.2	20.9
50°-60°	2531.4	23.7
60°-70°	2099.6	19.6
70°-80°	760.5	7.1
80°-90°	24.7	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°	10698.8	100.0
0°-180°	10698.8	100.0

Coefficient of Utilization

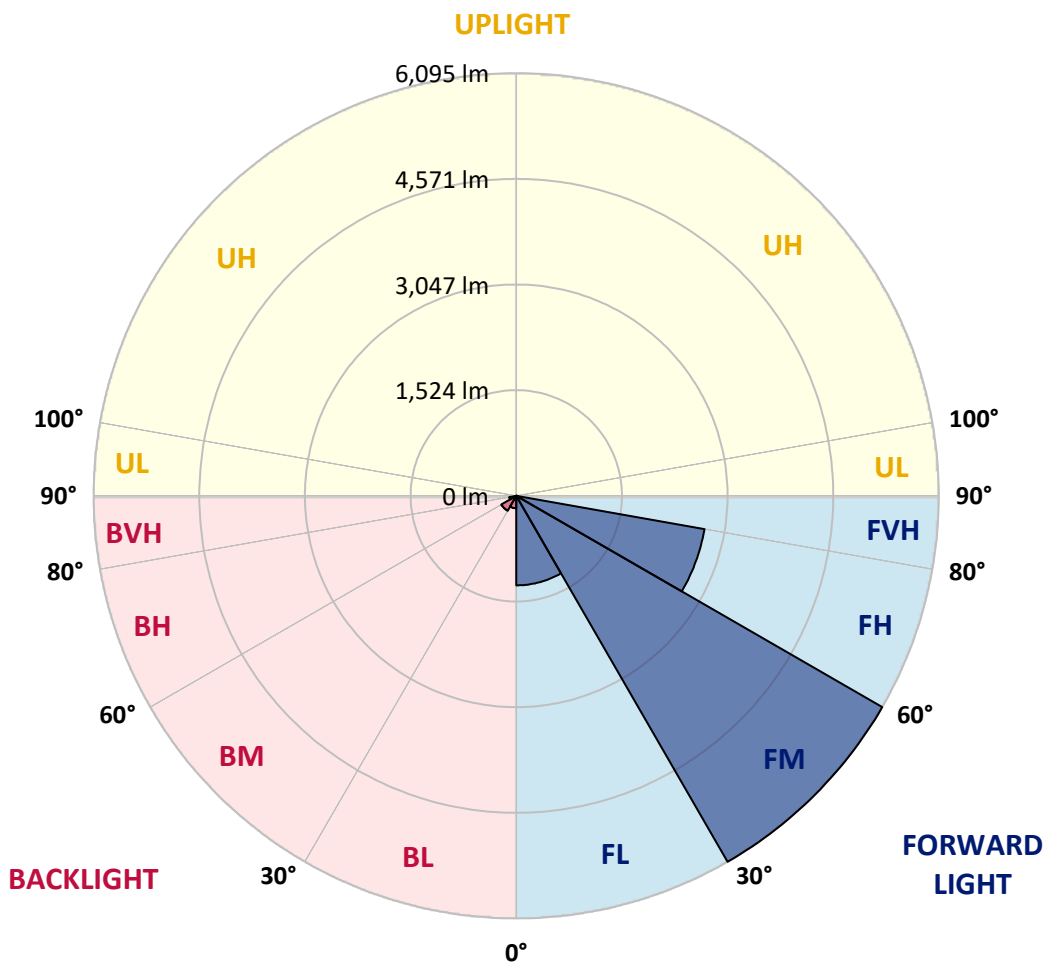


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.3	12.1			
FM (30°-60°)	6094.9	57.0			
FH (60°-80°)	2757.5	25.8			G2/5000
FVH (80°-90°)	23.9	0.2			G1/100
BL (0°-30°)	179.2	1.7	B1/500		
BM (30°-60°)	248.7	2.3	B1/1000		
BH (60°-80°)	102.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.8	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°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	1354.7	1324.3	1331.4	1311.6	1276.0	1202.9	1140.6	1081.5	1012.6	1010.3	953.5
5°	1826.9	1801.1	1797.8	1757.9	1693.3	1569.0	1448.1	1310.2	1156.5	1145.2	1024.8
7.5°	2255.4	2234.7	2227.2	2179.8	2059.4	1938.5	1780.9	1578.4	1337.9	1317.3	1120.8
10°	2584.4	2574.6	2576.5	2542.7	2439.5	2327.1	2120.3	1862.0	1543.7	1511.8	1236.2
12.5°	2833.8	2836.2	2853.1	2832.4	2774.7	2691.3	2470.5	2164.4	1771.5	1727.9	1367.9
15°	3017.1	3028.8	3059.8	3085.6	3081.4	3009.2	2806.7	2471.4	2013.4	1965.2	1514.6
17.5°	3135.7	3148.8	3193.8	3251.0	3303.5	3286.7	3131.0	2767.7	2258.2	2202.4	1671.7
20°	3239.7	3255.3	3303.5	3379.0	3477.0	3498.1	3395.9	3055.1	2502.4	2434.4	1833.9
22.5°	3465.3	3464.8	3494.3	3538.4	3631.7	3686.0	3621.4	3321.8	2743.8	2673.0	1999.4
25°	3873.1	3857.6	3847.3	3812.6	3833.2	3867.0	3830.9	3571.2	2986.6	2914.9	2167.2
27.5°	4357.9	4367.2	4283.8	4190.5	4118.3	4083.6	4024.6	3802.3	3220.1	3141.4	2331.3
30°	4869.3	4872.1	4773.6	4654.6	4495.6	4363.9	4261.7	4023.2	3460.1	3374.3	2490.7
32.5°	5330.6	5312.2	5214.8	5052.6	4852.0	4703.8	4491.5	4269.7	3714.2	3631.2	2667.9
35°	5696.2	5674.6	5556.0	5408.4	5200.3	5051.1	4795.7	4515.9	3981.4	3900.3	2845.5
37.5°	5963.4	5938.2	5816.2	5664.4	5484.8	5398.0	5148.7	4783.5	4273.0	4185.8	3032.6
40°	6056.3	6034.2	5957.8	5846.7	5702.3	5682.6	5523.2	5091.5	4590.4	4497.5	3244.5
42.5°	6000.9	5979.3	5952.2	5914.7	5854.7	5873.4	5876.7	5442.6	4942.9	4851.5	3478.4
45°	5781.6	5762.3	5790.4	5845.3	5919.8	6012.7	6199.3	5819.9	5336.6	5239.1	3748.9
47.5°	5458.6	5444.5	5522.3	5659.2	5877.1	6133.1	6494.1	6216.6	5778.8	5688.2	4086.4
50°	4999.2	4996.8	5152.4	5402.3	5737.5	6191.3	6798.8	6667.6	6392.8	6297.6	4555.6
52.5°	4283.8	4288.5	4594.6	4994.5	5492.3	6151.8	6994.8	7247.0	7107.2	7008.3	4962.1
55°	3602.7	3630.7	3847.8	4424.4	5116.3	6005.6	7062.2	7517.5	7501.5	7407.8	5188.1
57.5°	2935.6	2986.6	3195.7	3734.4	4567.4	5668.6	7025.3	7634.7	7795.0	7723.3	5486.2
60°	2212.7	2236.1	2477.1	2980.6	3862.8	5053.6	6756.6	7698.4	8196.2	8146.6	5918.9
62.5°	1407.8	1466.3	1680.1	2165.8	3007.7	4199.4	6303.8	7697.5	8698.3	8725.5	6477.2
65°	741.6	810.1	923.5	1342.2	2066.9	3245.4	5622.6	7625.3	9314.4	9352.3	6913.7
67.5°	399.9	419.6	479.6	696.6	1198.7	2198.6	4621.8	7269.0	9671.0	9721.3	6974.6
70°	292.5	303.3	325.8	385.4	603.4	1277.0	3372.5	6461.3	9211.1	9192.4	6196.8
72.5°	224.5	241.5	258.3	282.2	346.9	681.6	2099.7	5059.6	7349.6	7225.8	4632.1
75°	177.2	180.0	203.9	225.5	260.2	388.2	932.4	2946.8	4485.8	4192.8	2402.1
77.5°	141.6	143.5	157.5	176.2	209.0	255.1	288.8	1159.3	1432.2	1277.9	521.3
80°	83.9	88.6	117.2	135.9	173.5	160.8	105.5	251.7	223.6	202.5	87.7
82.5°	46.9	50.6	66.1	107.3	120.9	76.9	52.5	68.0	52.5	51.1	24.9
85°	0.0	2.3	42.7	66.6	49.2	16.9	22.1	22.5	15.5	14.5	9.9
87.5°	0.0	0.0	13.1	12.7	1.9	2.8	5.1	7.5	6.1	6.1	5.1
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°	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6	907.6
2.5°	925.4	900.1	852.3	805.4	766.0	733.7	704.6	692.9	683.5	682.1	674.6
5°	966.7	915.5	824.1	749.2	698.9	663.4	632.9	614.1	599.5	594.0	588.8
7.5°	1029.0	951.7	820.4	734.2	674.2	614.1	557.8	496.9	459.0	444.4	436.0
10°	1104.9	999.5	834.5	729.9	624.9	498.3	405.0	327.7	296.2	286.0	283.2
12.5°	1193.5	1059.0	858.8	703.7	519.9	353.9	279.4	253.1	246.1	242.9	242.9
15°	1295.2	1124.2	876.1	627.7	384.4	267.6	241.9	229.7	222.2	218.0	218.4
17.5°	1399.4	1187.9	867.7	517.6	283.7	238.1	218.9	205.8	195.4	191.2	190.3
20°	1504.4	1247.0	820.9	385.4	240.1	216.1	194.5	180.0	169.7	165.4	164.5
22.5°	1613.1	1297.1	738.3	282.6	215.7	191.7	170.7	156.1	146.3	142.5	140.7
25°	1719.1	1337.9	623.0	228.8	192.6	168.8	148.6	135.0	126.1	122.3	121.8
27.5°	1817.9	1363.7	489.4	202.1	172.5	148.1	129.9	117.7	110.2	107.3	106.8
30°	1907.1	1366.0	361.9	182.4	154.7	130.3	113.5	102.7	96.1	93.2	92.3
32.5°	1997.1	1346.4	263.4	164.5	138.3	114.9	98.5	90.0	85.3	83.0	83.0
35°	2081.9	1300.9	205.3	149.0	122.3	99.9	86.7	80.7	77.8	75.5	75.5
37.5°	2164.8	1235.7	174.4	135.4	107.3	87.2	76.4	72.7	70.3	68.0	68.0
40°	2249.2	1153.7	158.5	122.8	95.2	77.3	68.0	64.6	62.3	60.5	60.0
42.5°	2352.8	1059.0	148.1	111.1	84.4	68.5	60.0	56.3	54.4	52.5	51.6
45°	2472.9	977.4	139.7	99.4	75.5	60.9	52.1	48.3	45.5	43.1	42.7
47.5°	2645.9	918.3	128.5	86.7	67.1	53.0	45.0	40.8	36.6	34.2	33.7
50°	2866.7	869.6	113.9	75.5	58.6	45.0	37.5	32.3	28.6	26.3	26.3
52.5°	2976.3	805.9	100.8	65.7	49.2	38.0	30.5	24.4	22.5	20.1	20.1
55°	3020.4	757.1	87.7	55.8	40.8	31.4	23.9	18.7	17.3	15.9	15.5
57.5°	3144.2	743.0	76.4	47.3	33.7	24.9	18.3	14.1	13.1	11.3	11.3
60°	3343.4	750.1	66.1	40.3	27.2	19.2	13.6	10.8	9.9	8.0	8.0
62.5°	3558.5	741.1	55.8	34.7	21.1	14.1	9.4	8.0	8.0	4.7	4.2
65°	3599.8	660.1	47.8	28.6	16.4	10.3	6.1	5.1	7.0	0.9	0.0
67.5°	3341.0	511.9	41.3	22.1	12.2	8.0	4.7	2.3	6.1	0.0	0.0
70°	2671.6	325.3	33.3	15.9	9.4	6.5	3.7	0.9	4.7	0.0	0.0
72.5°	1889.2	188.9	26.3	11.3	8.0	5.1	2.8	0.0	2.8	0.0	0.0
75°	955.4	100.8	16.4	8.5	6.1	3.7	1.9	0.0	0.5	0.0	0.0
77.5°	206.7	46.9	10.3	6.1	4.2	2.3	0.9	0.0	0.0	0.0	0.0
80°	45.0	20.6	6.5	3.7	2.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.4	10.8	3.3	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	5.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.9	0.5	0.5	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)