

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: P382960

Luminaire Tested: **GLEON-SA3A-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9606.1 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

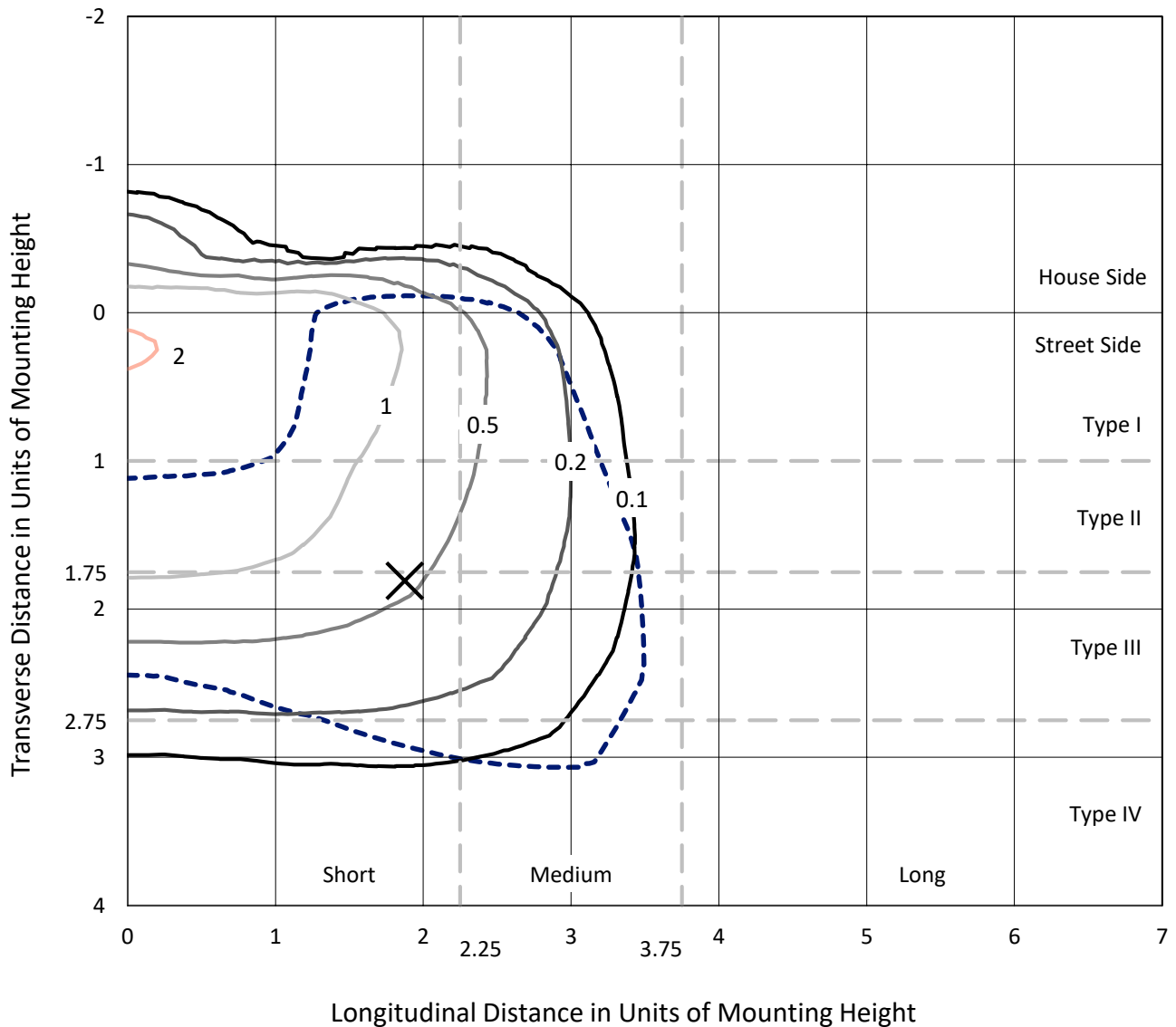
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

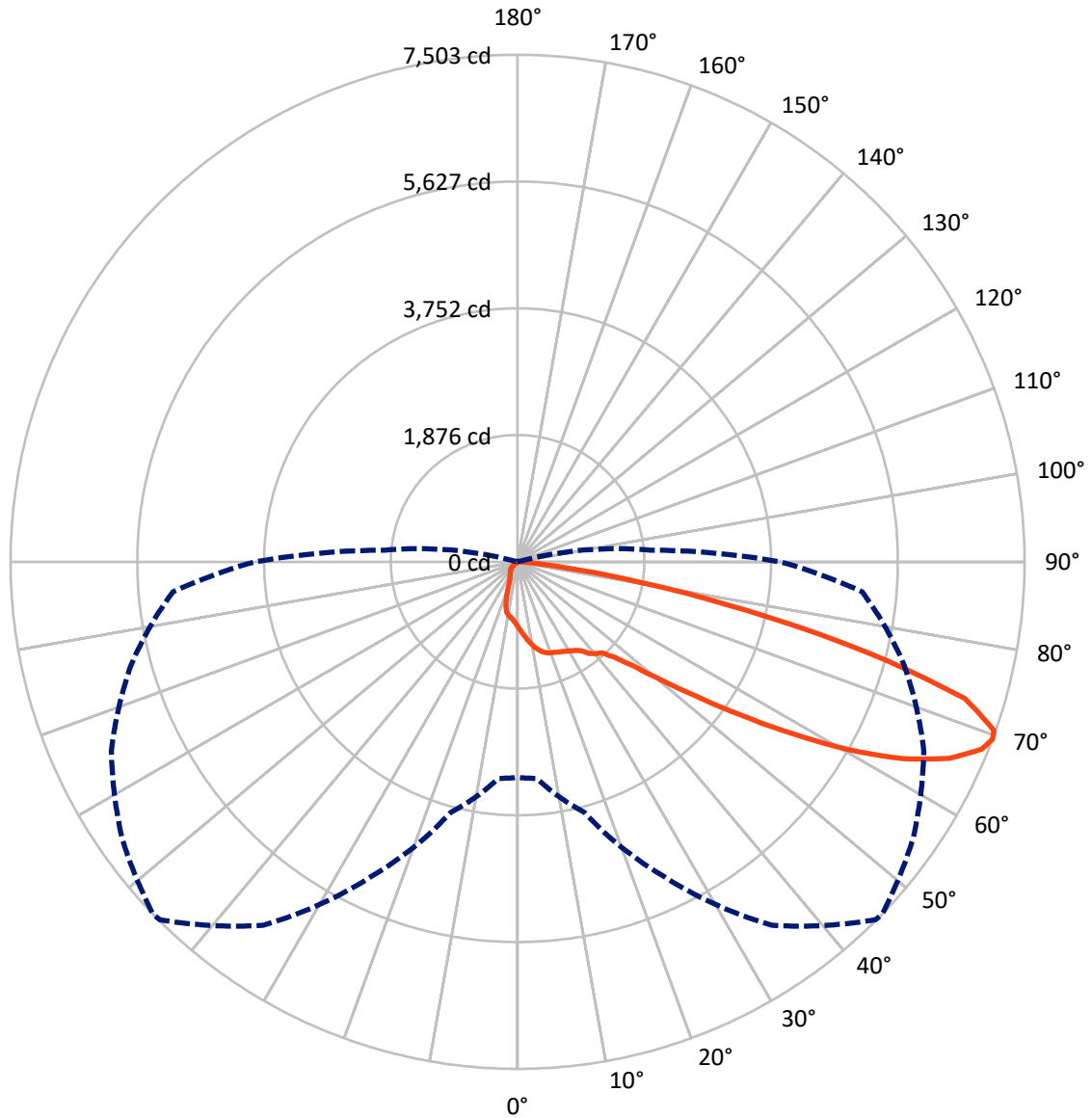
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	985.8	0.0	985.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	8620.3	0.0	8620.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	9606.1	0.0	9606.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	1.0
10°-20°	290.6	3.0
20°-30°	457.1	4.8
30°-40°	655.5	6.8
40°-50°	1132.9	11.8
50°-60°	2238.1	23.3
60°-70°	3127.9	32.6
70°-80°	1511.1	15.7
80°-90°	97.1	1.0
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°	9606.1	100.0
0°-180°	9606.1	100.0



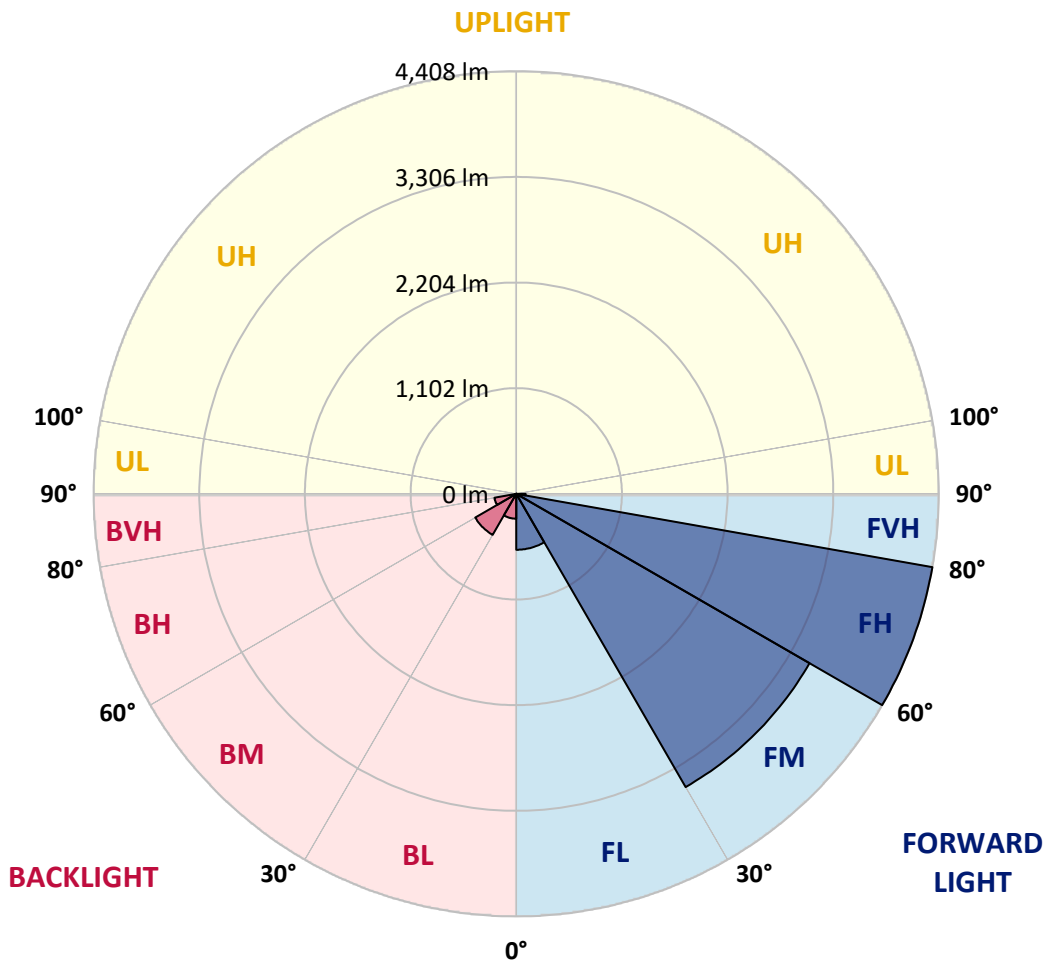
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 CATALOG NUMBER: GLEON-SA3A-735-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.7	6.1			
FM (30°-60°)	3532.4	36.8			
FH (60°-80°)	4407.9	45.9			G2/5000
FVH (80°-90°)	96.3	1.0			G1/100
BL (0°-30°)	259.8	2.7	B1/500		
BM (30°-60°)	494.0	5.1	B1/1000		
BH (60°-80°)	231.2	2.4	B1/500		G1/500
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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	1069.2	1067.9	1061.6	1058.9	1043.6	1034.6	1030.9	1019.7	1003.5	987.3	969.3
5°	1190.9	1190.4	1178.7	1167.4	1138.6	1111.6	1106.6	1080.5	1044.0	1009.8	975.5
7.5°	1315.2	1309.3	1297.6	1275.9	1234.1	1190.9	1186.8	1149.9	1098.1	1048.5	999.5
10°	1420.5	1417.0	1401.6	1368.7	1319.6	1270.5	1265.6	1220.1	1161.5	1100.8	1038.2
12.5°	1502.5	1499.8	1479.6	1438.6	1386.3	1335.5	1328.7	1288.1	1225.5	1157.5	1083.7
15°	1552.5	1551.1	1526.4	1482.7	1431.3	1387.3	1381.4	1345.8	1287.7	1216.5	1133.2
17.5°	1564.3	1564.7	1539.0	1494.9	1452.6	1421.0	1416.5	1389.5	1340.9	1270.1	1182.8
20°	1538.1	1543.5	1520.6	1482.3	1456.1	1439.4	1435.9	1419.7	1378.7	1312.0	1222.4
22.5°	1501.2	1503.9	1488.1	1462.4	1451.6	1454.8	1452.9	1444.0	1409.2	1348.0	1261.6
25°	1478.6	1478.6	1469.2	1447.5	1454.8	1474.2	1474.6	1472.8	1445.3	1392.2	1309.3
27.5°	1477.7	1475.0	1464.2	1448.0	1467.8	1497.6	1499.3	1511.5	1494.4	1445.8	1368.7
30°	1513.8	1510.6	1487.7	1466.5	1491.7	1523.7	1528.2	1554.8	1546.2	1503.9	1435.0
32.5°	1598.0	1586.7	1535.8	1501.2	1520.1	1558.4	1564.3	1606.5	1620.1	1575.5	1499.0
35°	1713.3	1677.7	1604.3	1567.0	1568.7	1608.8	1614.2	1676.4	1716.5	1641.2	1548.4
37.5°	1872.3	1854.7	1735.4	1635.4	1643.5	1704.3	1720.1	1787.6	1776.4	1677.3	1604.8
40°	2220.9	2193.4	2066.5	1827.2	1715.1	1781.8	1786.7	1822.8	1823.7	1758.8	1721.9
42.5°	2695.6	2684.3	2550.6	2175.4	1856.1	1833.6	1842.6	1903.3	1971.3	1930.8	1929.0
45°	3221.2	3215.4	3073.5	2637.5	2141.2	2003.4	2014.7	2096.2	2226.3	2235.3	2292.5
47.5°	3644.1	3641.4	3559.9	3153.2	2577.6	2291.1	2294.8	2381.2	2610.0	2723.1	2814.5
50°	4029.7	4042.7	3978.4	3711.3	3172.1	2742.0	2733.4	2791.1	3158.6	3343.7	3457.3
52.5°	4565.7	4584.1	4403.5	4231.9	3796.0	3301.4	3294.6	3355.0	3818.0	3956.7	3977.0
55°	5039.0	5007.5	4864.7	4815.2	4556.7	3992.3	3990.5	4043.7	4455.8	4514.7	4552.2
57.5°	5248.1	5235.9	5304.8	5418.3	5353.4	4808.9	4804.8	4764.3	5026.4	5032.7	5147.5
60°	5380.0	5394.9	5606.1	5956.0	6117.8	5687.6	5661.5	5414.2	5571.4	5557.4	5680.4
62.5°	5280.9	5310.2	5690.3	6273.6	6689.7	6454.6	6417.7	6009.6	6037.1	5988.9	6103.3
65°	4754.8	4800.4	5423.2	6213.7	6973.5	7054.1	7016.7	6535.3	6406.9	6327.6	6264.1
67.5°	3860.8	3887.8	4538.2	5692.6	6845.6	7411.8	7404.0	6996.0	6686.1	6270.4	5777.6
69°	3190.6	3217.2	3843.2	5144.0	6564.1	7488.2	7503.2	7143.8	6633.0	5922.7	5119.2
70°	2702.4	2730.7	3314.0	4673.8	6237.5	7452.8	7479.3	7129.8	6480.8	5520.1	4541.4
72.5°	1417.4	1441.8	2040.3	3219.9	5084.9	6843.3	6923.9	6527.2	5493.5	4009.0	2685.3
75°	445.5	459.4	796.8	1683.1	3481.6	5321.0	5339.4	5120.1	3900.9	2205.2	1118.3
77.5°	169.8	165.7	265.3	620.2	1760.2	3350.5	3463.6	3199.6	2047.1	779.6	258.0
80°	91.4	91.9	137.8	256.7	753.1	1721.9	1817.4	1550.7	727.4	243.2	59.4
82.5°	39.6	41.5	77.5	136.0	345.9	635.0	682.8	568.4	277.9	163.5	22.1
85°	8.6	9.5	37.4	73.9	140.9	178.4	186.9	184.2	177.0	127.0	8.6
87.5°	0.0	0.0	16.7	26.5	35.6	40.5	35.6	46.4	97.7	85.6	4.5
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°	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5	962.5
2.5°	963.4	955.3	941.3	926.1	915.2	904.0	894.9	890.8	886.4	883.2	887.3
5°	961.6	945.8	918.8	892.7	873.8	858.4	845.8	840.9	836.0	832.3	831.9
7.5°	977.4	955.3	913.8	875.6	846.3	825.5	808.5	801.2	795.4	792.7	790.4
10°	1007.6	979.1	923.7	873.8	836.0	800.8	763.9	735.5	717.0	708.4	705.3
12.5°	1046.7	1011.1	942.7	883.2	828.2	760.7	682.4	614.8	571.1	556.7	548.1
15°	1092.7	1048.5	967.4	895.4	800.4	677.0	544.1	455.8	415.3	407.2	398.1
17.5°	1136.8	1088.1	997.2	897.6	739.1	540.9	398.6	338.7	323.0	328.4	329.7
20°	1175.5	1127.4	1026.5	877.8	627.9	405.8	308.5	293.6	299.5	309.8	311.7
22.5°	1214.7	1165.2	1053.5	825.5	485.5	308.1	277.9	281.5	287.4	297.7	299.5
25°	1262.4	1211.1	1078.7	729.7	364.3	262.1	263.9	269.3	275.2	284.7	285.5
27.5°	1317.4	1269.2	1095.4	604.9	270.2	241.0	246.9	255.0	260.7	269.8	271.5
30°	1390.3	1345.8	1100.8	475.6	226.6	222.1	224.8	234.7	243.2	251.3	252.6
32.5°	1458.8	1421.4	1082.7	358.9	209.9	204.5	204.5	210.3	220.2	227.9	229.7
35°	1521.9	1497.6	1025.1	262.6	197.3	188.3	183.8	183.8	190.0	196.4	198.1
37.5°	1605.2	1604.3	931.8	209.4	185.1	174.8	165.3	158.1	155.8	157.2	158.1
40°	1748.0	1749.4	810.3	187.8	174.8	160.8	146.3	133.3	121.2	117.1	116.6
42.5°	1971.0	1950.7	682.8	177.5	165.7	146.3	124.7	107.2	88.3	82.4	82.0
45°	2325.0	2204.7	547.7	168.0	156.3	130.1	103.1	79.3	64.0	59.4	59.4
47.5°	2840.7	2538.5	424.3	157.6	143.6	111.7	77.9	57.2	46.9	44.6	45.0
50°	3373.9	2865.4	325.2	144.6	128.4	92.3	57.7	41.5	35.6	35.6	36.1
52.5°	3846.8	3105.0	253.6	130.6	109.5	72.5	43.7	32.4	29.7	29.3	29.7
55°	4289.6	3259.5	194.1	114.4	86.9	54.0	33.3	26.5	24.8	23.8	23.4
57.5°	4716.5	3336.1	145.5	92.3	63.1	39.2	26.5	22.5	20.7	19.4	18.9
60°	5000.7	3273.9	100.0	68.0	43.7	28.4	22.1	19.4	17.1	15.7	15.3
62.5°	5161.1	3104.1	64.4	49.1	31.1	21.1	17.6	16.2	13.0	11.7	11.7
65°	5096.2	2824.0	45.0	35.1	22.5	15.7	13.0	13.0	9.5	7.6	7.2
67.5°	4516.1	2385.8	34.2	26.1	16.2	11.7	9.9	11.3	5.9	3.6	3.6
69°	3885.6	1977.2	29.3	21.6	13.5	9.5	8.6	10.3	4.1	2.7	2.2
70°	3377.0	1705.7	26.5	18.9	11.3	8.1	7.6	9.9	4.1	2.2	1.8
72.5°	2020.4	951.2	20.3	13.5	7.2	6.3	6.3	11.3	4.1	2.2	1.8
75°	816.6	335.1	14.9	9.5	5.4	5.4	7.6	14.4	3.6	1.8	1.4
77.5°	185.1	73.4	8.6	5.9	3.6	5.4	9.0	11.3	2.2	0.9	0.0
80°	45.0	18.0	5.4	3.6	2.2	4.1	6.8	6.3	0.5	0.0	0.0
82.5°	14.9	6.3	2.2	1.8	0.5	1.4	3.2	1.8	0.0	0.0	0.0
85°	6.3	3.6	0.9	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.1	1.4	0.0	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)