

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: P382748

Luminaire Tested: **GLEON-SA1B-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4524.5 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

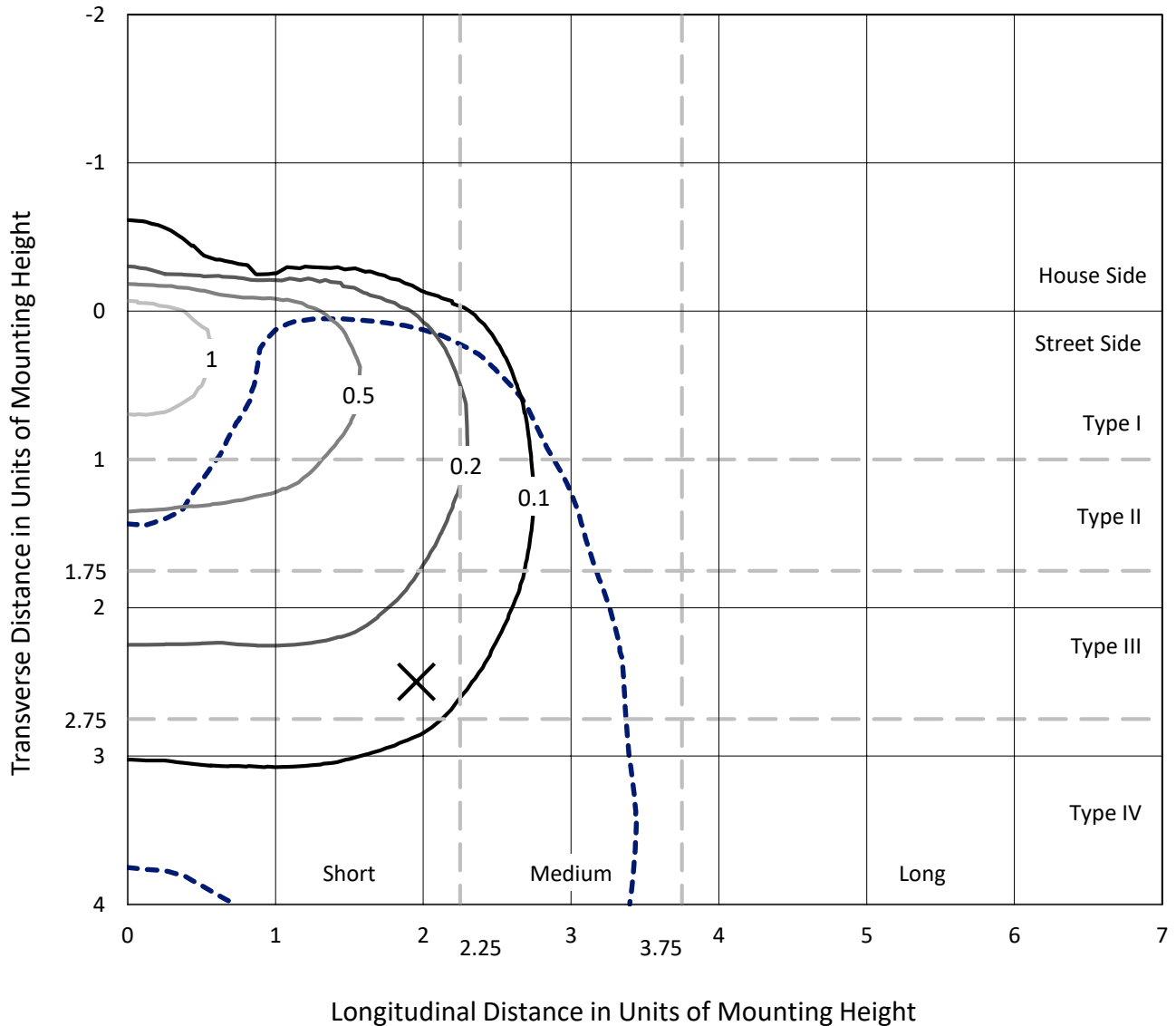
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

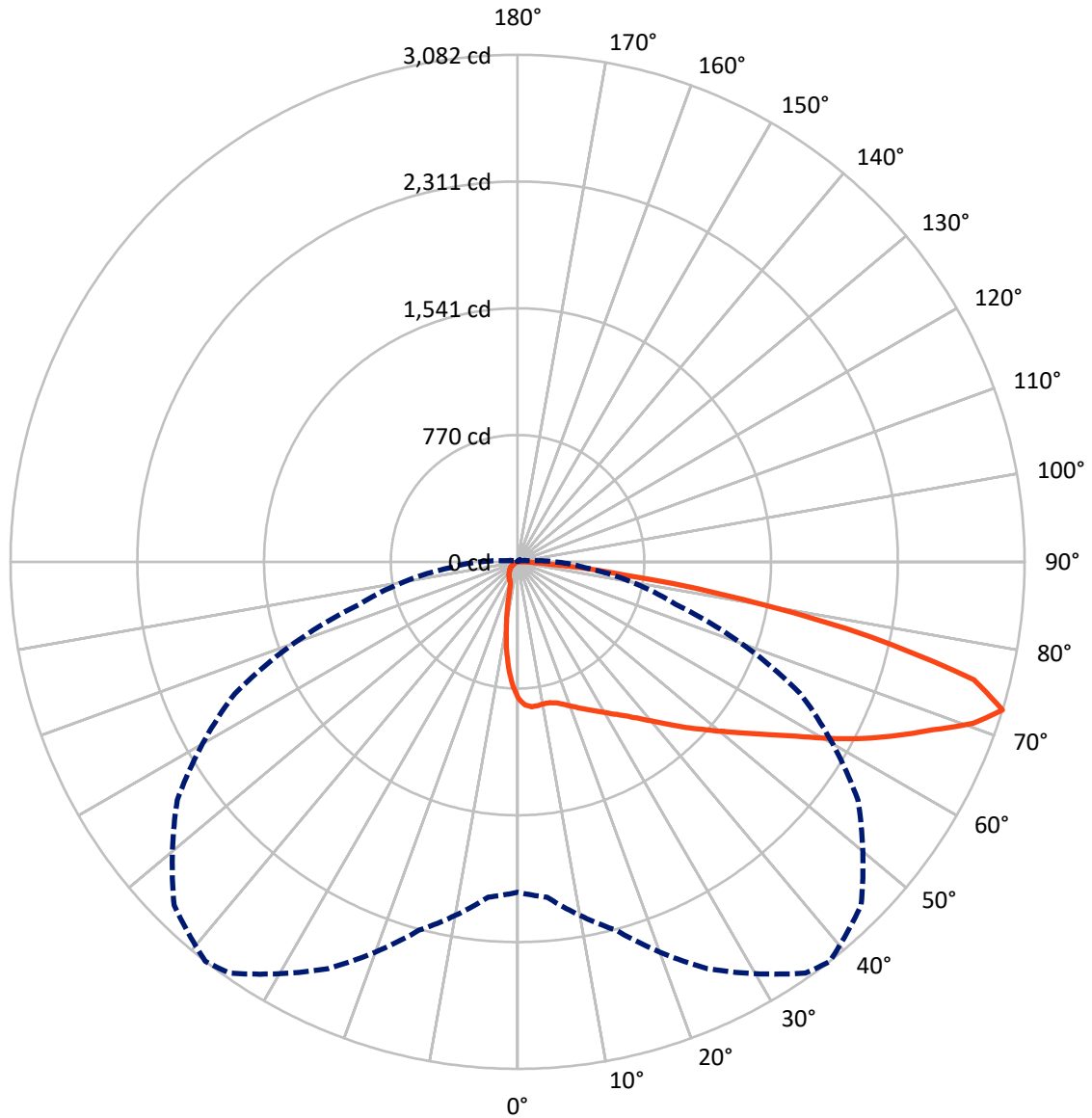
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	380.8	0.0	380.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4143.8	0.0	4143.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4524.5	0.0	4524.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	1.6
10°-20°	173.4	3.8
20°-30°	275.8	6.1
30°-40°	414.6	9.2
40°-50°	632.5	14.0
50°-60°	893.9	19.8
60°-70°	1121.2	24.8
70°-80°	838.4	18.5
80°-90°	103.9	2.3
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°	4524.5	100.0
0°-180°	4524.5	100.0

**Coefficient of Utilization**



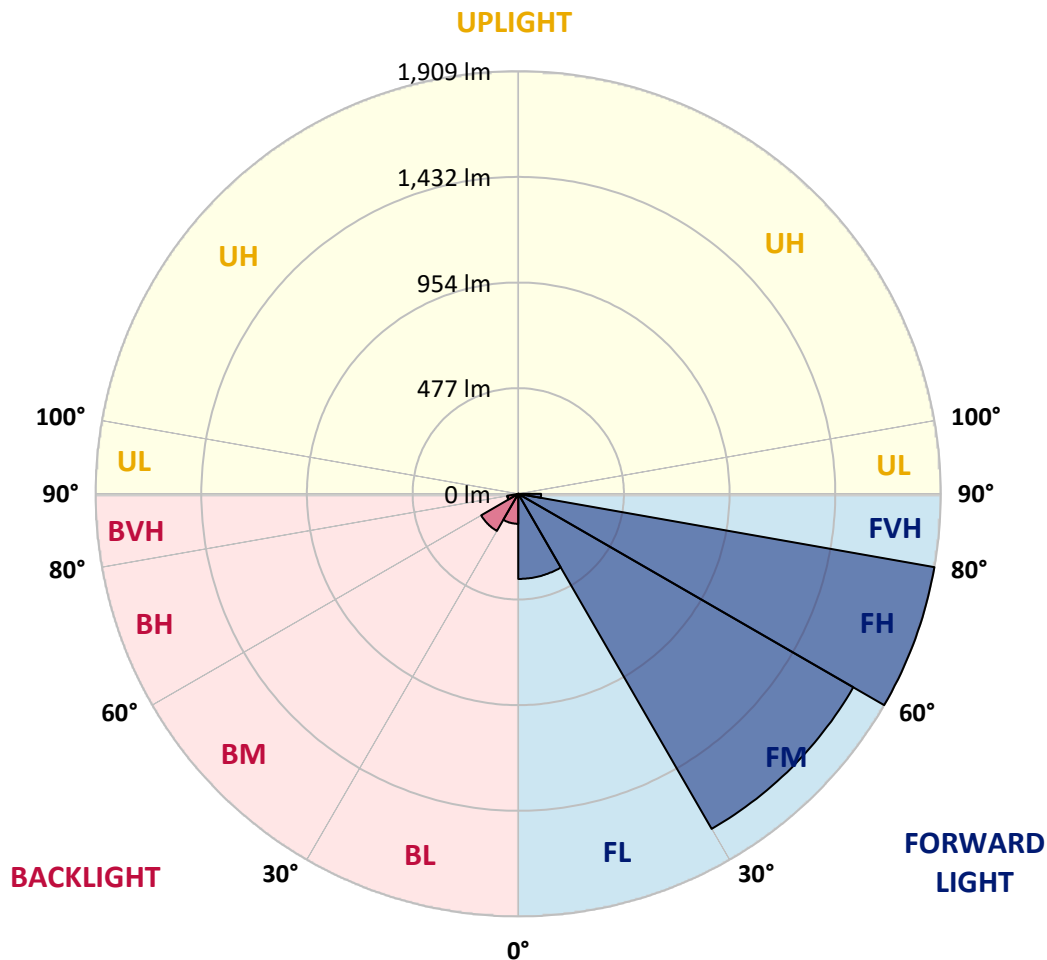
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.5	8.5			
FM (30°-60°)	1747.6	38.6			
FH (60°-80°)	1908.7	42.2			G2/5000
FVH (80°-90°)	103.0	2.3			G2/225
BL (0°-30°)	135.6	3.0	B1/500		
BM (30°-60°)	193.4	4.3	B0/220		
BH (60°-80°)	50.9	1.1	B0/110		G0/110
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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
2.5°	883.2	883.4	881.2	877.9	873.6	871.3	867.6	861.6	855.2	843.7	831.3
5°	901.2	901.2	898.6	894.1	887.1	885.1	877.9	868.3	855.2	836.5	815.7
7.5°	899.3	899.7	896.1	891.4	884.5	882.5	874.0	863.3	846.9	824.3	797.7
10°	889.5	890.5	887.7	885.4	879.0	877.0	868.9	858.1	841.8	817.8	787.2
12.5°	879.6	880.5	881.4	883.6	879.6	878.8	872.5	863.5	847.8	822.8	788.3
15°	873.2	875.1	881.8	889.9	890.8	890.1	886.0	877.5	861.8	835.8	796.4
17.5°	873.2	876.2	890.3	905.7	911.1	911.7	908.2	896.3	877.5	849.7	803.8
20°	880.5	884.7	906.7	928.5	937.4	937.4	930.5	913.9	892.0	862.3	809.0
22.5°	899.3	904.7	932.4	957.5	967.1	965.1	955.7	931.6	907.0	876.6	815.3
25°	936.3	940.5	969.2	994.6	1000.4	995.7	983.9	953.1	926.1	896.0	826.9
27.5°	984.1	984.6	1014.3	1035.7	1032.2	1029.0	1014.1	979.9	953.8	923.5	847.1
30°	1036.5	1036.5	1062.6	1078.9	1068.0	1065.4	1050.6	1012.4	989.1	961.2	875.7
32.5°	1087.2	1089.4	1110.7	1121.0	1108.8	1106.2	1091.8	1053.6	1036.1	1018.5	920.2
35°	1136.3	1138.0	1158.1	1163.7	1152.0	1152.8	1142.4	1110.1	1103.6	1101.3	987.3
37.5°	1183.8	1184.2	1204.7	1208.2	1202.4	1208.8	1209.7	1181.2	1193.4	1211.6	1081.8
40°	1227.2	1227.6	1247.9	1257.1	1267.1	1275.3	1282.6	1267.5	1307.8	1350.1	1194.3
42.5°	1262.0	1265.9	1291.7	1309.1	1335.5	1351.2	1371.1	1370.4	1444.1	1507.5	1330.3
45°	1292.6	1299.3	1335.3	1365.9	1411.0	1436.2	1467.4	1491.8	1597.4	1682.8	1468.1
47.5°	1333.0	1339.4	1380.4	1430.5	1490.7	1523.7	1575.4	1628.2	1765.9	1855.0	1602.6
50°	1390.0	1387.1	1427.5	1499.5	1576.7	1620.1	1693.7	1772.9	1933.1	2005.0	1681.7
52.5°	1450.6	1449.5	1479.4	1574.5	1678.2	1729.0	1826.3	1922.4	2093.1	2108.3	1718.1
55°	1525.8	1517.7	1542.9	1659.9	1798.6	1853.1	1967.7	2070.6	2220.4	2166.6	1736.2
57.5°	1604.5	1591.2	1615.2	1755.2	1934.5	1998.9	2124.5	2214.8	2305.2	2206.4	1736.0
60°	1685.9	1670.1	1698.7	1874.4	2103.2	2177.9	2294.3	2312.4	2384.3	2226.5	1723.3
62.5°	1753.9	1744.5	1787.0	2001.8	2291.7	2365.0	2422.7	2401.1	2451.0	2242.0	1693.4
65°	1825.8	1826.5	1895.0	2150.4	2492.0	2541.4	2546.3	2516.0	2506.9	2238.9	1592.3
67.5°	1923.2	1932.2	2046.7	2352.2	2686.9	2725.0	2724.6	2640.7	2547.6	2111.9	1368.2
70°	2026.2	2047.4	2221.5	2583.2	2899.5	2938.3	2918.4	2719.9	2398.8	1707.7	968.3
72.5°	2008.9	2045.8	2318.5	2728.8	3052.3	3081.8	2952.4	2525.1	1896.0	992.5	412.3
75°	1549.8	1592.5	2126.0	2584.5	2892.1	2865.5	2536.7	1964.9	1036.1	276.9	92.8
77.5°	818.7	841.5	1404.4	1968.9	2255.1	2199.7	1787.0	1090.0	315.9	68.6	41.7
80°	428.8	434.1	612.0	1117.1	1391.8	1392.2	1059.1	478.8	130.2	35.1	28.0
82.5°	229.6	234.1	323.3	516.2	729.2	661.0	405.5	263.4	75.7	19.9	26.8
85°	55.2	56.2	183.4	235.9	286.7	204.8	120.4	221.1	20.5	11.6	21.8
87.5°	21.2	21.6	68.0	102.0	73.1	47.3	56.4	82.5	2.6	4.5	3.4
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°	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
2.5°	823.8	818.9	806.9	791.6	778.1	768.3	753.7	744.1	737.7	737.5	735.1
5°	802.9	792.9	767.0	736.2	708.3	683.0	653.4	629.8	612.4	609.6	603.5
7.5°	780.5	764.2	724.4	676.3	629.3	581.6	526.1	491.8	462.2	448.2	446.7
10°	766.8	743.9	687.4	617.8	544.2	466.6	394.0	343.8	307.6	297.3	289.5
12.5°	764.1	733.8	658.8	562.9	457.8	355.1	274.9	221.5	192.6	183.4	180.9
15°	766.8	729.0	634.8	508.6	370.2	252.0	184.5	153.5	142.6	140.0	139.8
17.5°	768.5	723.4	607.5	448.4	285.2	180.0	141.3	132.3	130.6	130.4	130.8
20°	768.3	714.8	575.0	381.1	212.1	141.5	127.8	125.9	125.5	125.7	125.5
22.5°	767.0	704.6	539.3	311.7	160.3	126.5	121.9	120.8	120.6	120.6	120.6
25°	769.5	696.6	500.1	245.4	132.1	119.5	116.7	115.8	115.6	115.6	115.2
27.5°	778.3	692.0	457.0	188.8	119.3	113.3	111.0	110.9	110.3	110.1	110.5
30°	792.6	692.0	409.8	146.9	111.6	106.9	105.3	104.9	104.7	104.5	104.7
32.5°	817.8	697.4	358.4	122.1	104.3	99.8	98.7	99.2	98.7	98.7	98.7
35°	863.3	713.1	304.4	106.6	96.6	92.8	91.7	92.4	92.0	92.0	91.9
37.5°	929.6	742.4	250.1	97.2	89.8	85.9	84.4	85.5	85.1	85.1	85.0
40°	1010.4	785.1	198.4	90.0	83.3	79.1	77.8	78.3	77.4	77.4	77.8
42.5°	1110.1	839.2	153.3	83.1	76.7	72.8	72.0	71.4	69.7	68.7	68.9
45°	1221.0	895.6	119.5	76.3	70.4	67.3	66.1	64.6	61.9	59.9	60.1
47.5°	1320.0	939.0	97.2	69.7	64.8	62.4	60.7	57.8	53.8	51.5	51.7
50°	1372.1	945.5	82.7	63.2	59.5	57.1	54.7	50.4	45.5	43.0	42.9
52.5°	1385.4	914.7	72.0	57.1	54.3	51.5	48.3	42.5	37.0	34.4	34.0
55°	1390.3	867.7	62.4	51.5	48.6	45.5	41.4	34.7	29.7	27.0	26.8
57.5°	1374.1	797.7	54.9	46.4	43.0	39.1	34.0	27.9	22.9	20.9	20.9
60°	1338.3	702.8	49.0	41.0	37.2	32.7	27.5	21.6	17.1	15.4	15.4
62.5°	1266.6	579.9	43.6	35.3	31.8	27.0	22.2	16.3	12.0	11.1	11.3
65°	1131.6	439.9	38.1	30.3	27.0	22.4	17.3	11.6	8.1	8.1	8.5
67.5°	922.8	305.5	32.5	25.7	23.3	18.3	13.1	8.1	5.7	6.4	7.2
70°	610.9	171.4	27.9	21.2	19.9	14.4	9.8	5.4	4.5	6.1	7.4
72.5°	230.6	66.7	23.3	17.1	17.3	11.1	7.0	4.1	4.1	6.6	8.7
75°	64.3	32.7	16.8	12.6	13.5	8.1	5.0	3.5	3.9	7.5	10.2
77.5°	37.7	24.0	10.9	7.4	9.2	5.7	3.4	2.8	3.4	6.4	9.8
80°	30.5	12.8	6.4	3.7	5.0	3.2	2.2	1.7	0.9	2.4	5.0
82.5°	30.5	7.7	3.0	2.6	2.6	1.7	1.1	0.7	0.2	0.0	1.3
85°	20.5	3.2	1.9	1.7	1.3	0.6	0.4	0.2	0.0	0.0	0.0
87.5°	3.4	1.3	0.7	0.4	0.2	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)