

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: P382718

Luminaire Tested: **GLEON-SA1A-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3883.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

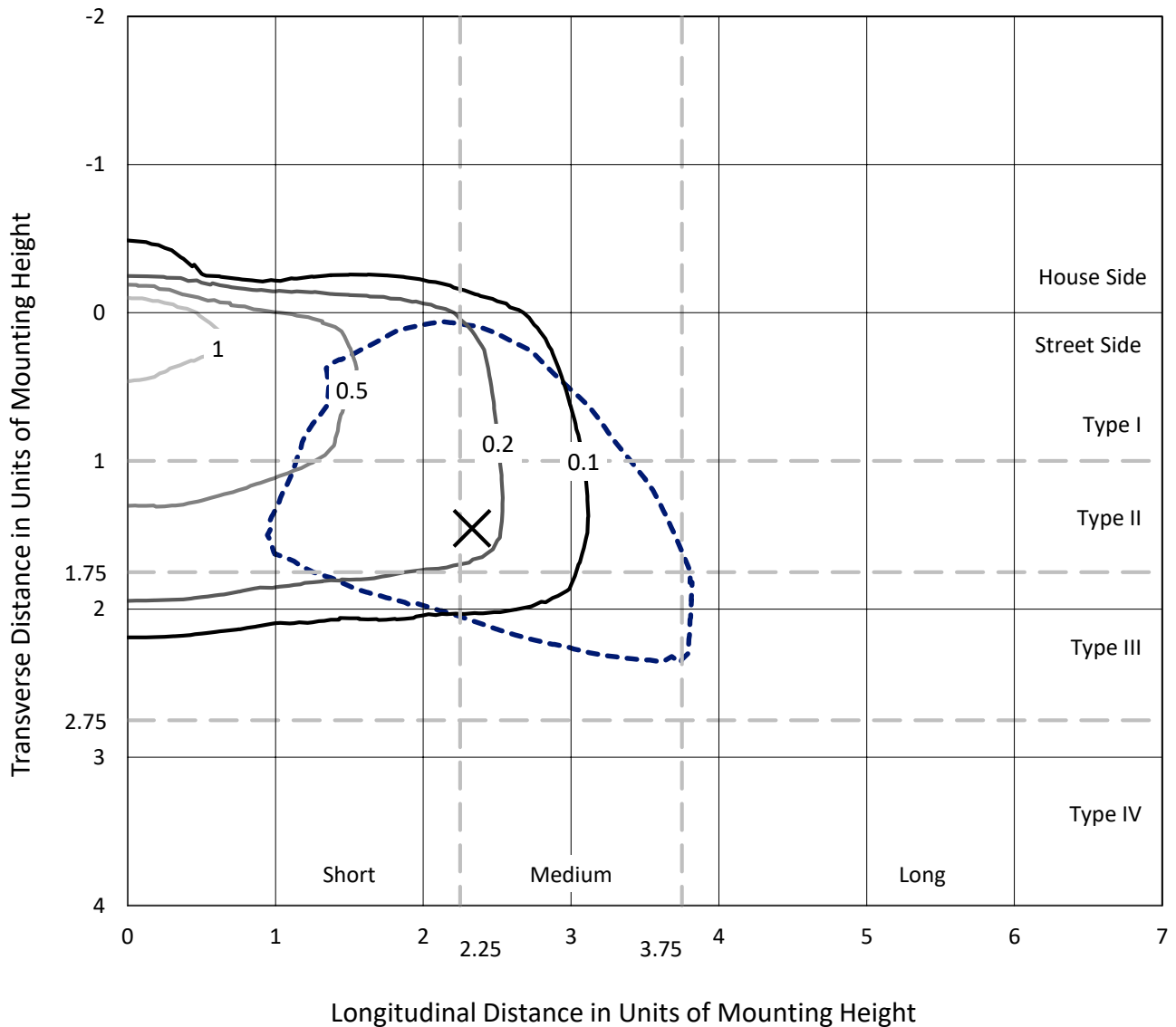
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

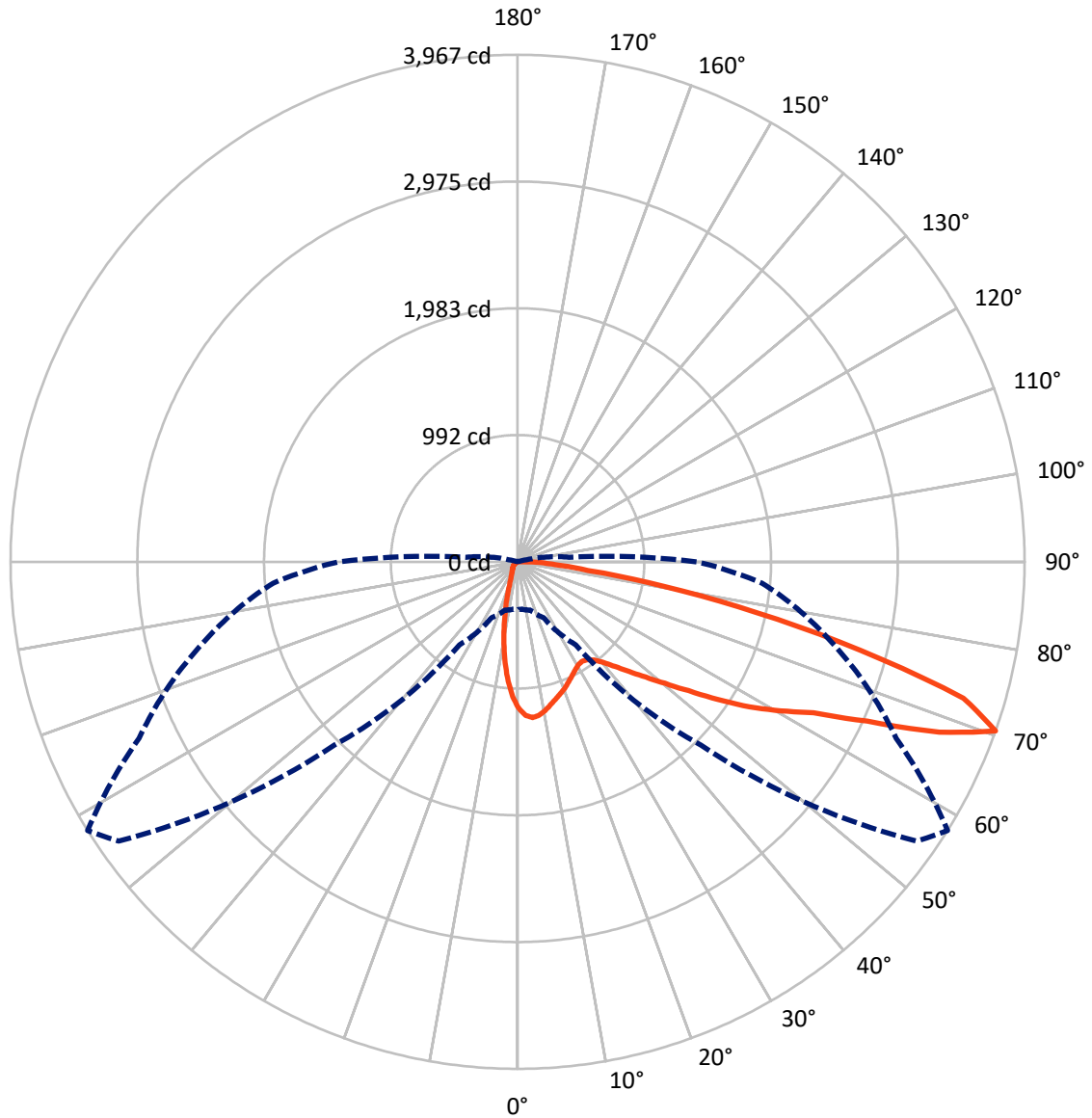
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	332.4	0.0	332.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	3551.3	0.0	3551.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	3883.6	0.0	3883.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	2.4
10°-20°	196.9	5.1
20°-30°	258.8	6.7
30°-40°	342.8	8.8
40°-50°	512.4	13.2
50°-60°	820.8	21.1
60°-70°	1034.6	26.6
70°-80°	558.1	14.4
80°-90°	65.3	1.7
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°	3883.6	100.0
0°-180°	3883.6	100.0

Coefficient of Utilization

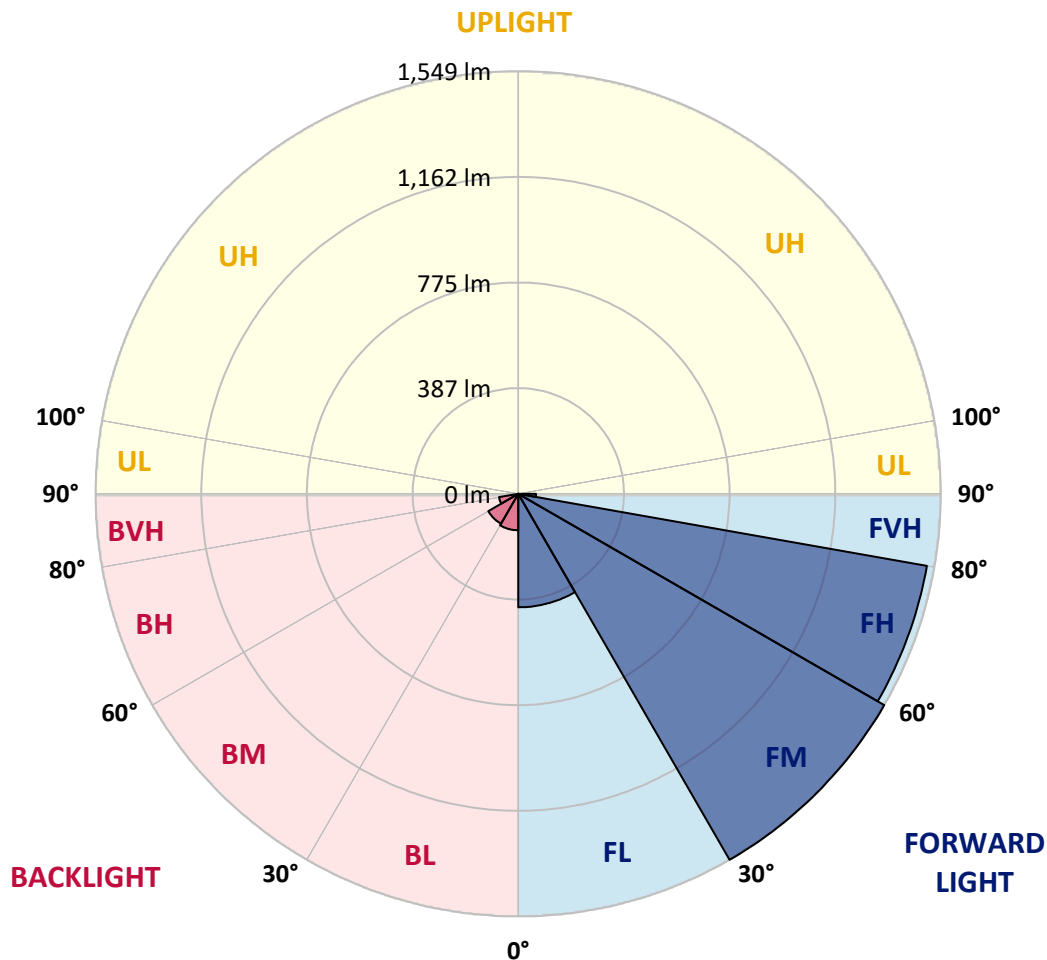


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.0	10.7			
FM (30°-60°)	1549.2	39.9			
FH (60°-80°)	1521.3	39.2			G1/1800
FVH (80°-90°)	64.8	1.7			G1/100
BL (0°-30°)	133.5	3.4	B1/500		
BM (30°-60°)	126.8	3.3	B0/220		
BH (60°-80°)	71.5	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1242.3	1239.2	1238.1	1236.2	1228.7	1221.4	1207.1	1203.1	1194.1	1172.5	1149.8
5°	1243.2	1243.2	1246.5	1245.7	1243.2	1239.7	1229.4	1224.1	1208.8	1178.0	1136.4
7.5°	1183.3	1186.4	1194.1	1200.2	1207.3	1216.5	1217.8	1212.6	1200.0	1166.9	1111.7
10°	1103.0	1107.8	1118.4	1130.5	1149.2	1167.5	1184.0	1183.3	1179.1	1146.4	1082.0
12.5°	1022.4	1028.1	1040.3	1058.2	1084.5	1114.6	1143.9	1148.0	1155.3	1128.0	1054.5
15°	951.8	956.6	968.7	990.7	1023.3	1063.7	1106.9	1114.2	1132.9	1113.6	1031.6
17.5°	891.9	894.9	903.9	928.2	966.0	1014.9	1071.0	1085.5	1113.5	1102.3	1011.8
20°	850.0	850.6	856.4	873.5	911.2	966.0	1033.8	1054.7	1092.8	1092.6	991.2
22.5°	829.4	827.8	828.9	838.8	866.5	919.3	996.7	1021.4	1074.2	1084.4	970.4
25°	825.5	824.2	821.0	822.3	839.0	878.4	959.2	987.8	1057.9	1079.4	952.3
27.5°	837.6	839.0	833.5	827.6	828.9	852.0	926.0	959.0	1044.6	1079.4	939.6
30°	862.1	862.7	858.6	851.1	840.9	844.5	902.9	936.0	1038.0	1086.8	931.5
32.5°	889.0	892.5	892.0	885.9	871.4	856.4	897.4	927.5	1037.6	1103.3	930.6
35°	922.4	926.4	933.2	931.9	916.7	892.0	916.1	939.8	1047.1	1130.4	939.4
37.5°	957.9	964.1	978.6	985.6	975.7	947.8	958.1	975.1	1072.6	1174.3	961.5
40°	992.4	999.3	1025.7	1053.0	1045.7	1016.9	1021.7	1035.3	1118.0	1237.5	1003.5
42.5°	1026.1	1036.4	1075.4	1120.3	1129.1	1106.2	1108.7	1119.6	1185.3	1324.4	1072.1
45°	1066.4	1078.1	1135.7	1191.2	1214.8	1204.9	1215.9	1222.9	1273.3	1439.1	1164.6
47.5°	1125.7	1139.1	1209.9	1273.0	1314.7	1321.1	1343.3	1347.9	1384.6	1572.9	1285.3
50°	1241.4	1245.1	1309.0	1366.3	1426.4	1465.1	1490.4	1493.9	1519.3	1719.0	1436.0
52.5°	1386.9	1389.3	1425.5	1463.8	1532.2	1611.3	1670.3	1675.3	1680.6	1861.4	1584.7
55°	1531.4	1531.1	1554.9	1577.6	1655.7	1770.7	1898.6	1901.7	1863.4	1996.6	1698.4
57.5°	1621.6	1630.4	1666.7	1695.8	1805.0	1952.3	2129.9	2141.2	2055.4	2096.7	1810.7
60°	1592.9	1597.1	1677.7	1785.2	1990.8	2210.6	2363.8	2366.8	2199.8	2196.7	1952.9
62.5°	1357.2	1359.4	1486.0	1707.7	2085.0	2545.5	2646.2	2598.8	2365.8	2335.4	2122.9
65°	930.2	944.9	1050.6	1324.7	1912.0	2755.6	3083.1	3004.8	2618.9	2535.3	2276.6
67.5°	547.7	544.7	597.0	798.9	1404.3	2616.1	3635.9	3558.0	2963.9	2669.3	2231.6
70°	374.2	372.1	392.1	483.7	792.7	2029.4	3809.8	3966.9	3268.6	2579.1	1920.6
72.5°	267.1	268.2	297.8	375.8	497.7	1182.4	3276.3	3648.1	3173.2	2248.4	1459.8
75°	181.4	184.4	226.7	308.2	436.3	601.5	2325.0	2773.2	2583.9	1634.1	839.0
77.5°	97.5	100.9	150.8	248.4	394.5	417.9	1495.5	1908.6	1623.1	734.6	243.2
80°	40.7	42.7	70.6	180.5	340.9	367.0	879.9	1157.4	691.7	144.9	54.2
82.5°	17.6	18.5	29.4	107.7	254.9	309.9	465.9	556.8	209.6	31.9	27.3
85°	3.4	3.5	12.1	57.0	162.6	174.9	302.0	296.0	94.2	13.7	19.8
87.5°	0.0	0.0	2.9	17.9	47.8	95.3	184.3	182.0	32.0	6.6	7.5
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°	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1138.2	1127.0	1103.6	1074.7	1052.6	1028.1	1008.8	984.3	973.6	974.1	968.3
5°	1112.6	1089.7	1037.8	972.4	922.0	870.1	825.4	780.8	754.5	745.9	737.9
7.5°	1076.1	1039.8	957.2	856.4	771.1	687.8	615.3	551.5	511.1	491.4	484.1
10°	1034.9	983.9	864.3	731.5	609.8	497.1	403.1	321.4	288.8	266.6	260.9
12.5°	998.8	929.7	773.6	603.5	459.0	323.0	233.4	182.5	160.3	151.7	150.2
15°	964.7	879.0	686.2	487.6	317.8	198.8	148.4	131.2	125.9	124.5	124.5
17.5°	932.6	830.7	600.8	373.4	210.3	139.4	122.9	119.1	117.4	117.3	117.4
20°	899.0	782.4	516.7	273.6	146.8	118.0	113.6	111.4	110.9	110.9	110.9
22.5°	866.9	734.2	435.0	195.4	117.7	107.7	105.5	104.0	103.5	103.3	103.0
25°	836.1	688.2	355.3	138.1	103.3	98.7	96.7	94.8	93.3	92.5	92.0
27.5°	810.6	647.4	281.0	110.8	93.3	89.3	86.9	83.9	80.4	78.8	78.2
30°	790.5	610.1	216.6	93.5	83.9	79.9	76.2	71.2	66.0	63.3	63.2
32.5°	774.7	573.5	164.4	82.7	75.5	70.6	65.2	59.0	53.0	49.9	49.7
35°	766.9	541.1	125.7	74.8	68.2	61.9	55.2	48.3	42.5	39.6	39.2
37.5°	772.1	513.8	98.0	68.2	61.9	54.6	46.9	39.6	34.4	31.9	31.7
40°	791.0	496.4	79.6	62.5	56.5	47.6	39.2	32.4	28.1	26.0	25.8
42.5°	831.2	490.0	68.0	57.8	51.3	41.2	32.6	26.8	22.7	21.3	21.0
45°	898.4	499.5	60.1	53.3	46.0	35.0	27.0	22.0	18.4	17.2	17.1
47.5°	987.8	524.6	54.4	48.9	41.2	29.5	22.5	17.8	15.0	13.9	13.7
50°	1103.1	564.2	49.7	44.5	36.7	25.1	18.5	14.1	11.6	10.8	10.8
52.5°	1228.6	611.6	45.6	40.5	32.1	20.9	15.0	10.8	9.2	8.2	8.2
55°	1332.3	652.9	41.0	37.4	26.6	17.2	11.5	8.2	6.8	6.3	6.3
57.5°	1435.8	697.0	35.9	32.1	21.3	14.1	8.8	6.1	5.0	4.7	4.7
60°	1569.9	750.9	30.8	26.2	16.8	10.6	6.4	4.4	3.7	3.5	3.5
62.5°	1717.6	782.6	26.4	21.0	13.0	7.9	4.7	2.9	2.7	2.7	2.6
65°	1807.9	737.9	22.1	16.8	10.2	6.0	3.1	2.1	2.4	2.2	2.0
67.5°	1692.7	577.7	18.1	13.0	7.9	4.6	2.0	1.5	2.6	2.1	1.6
70°	1401.5	404.4	14.1	9.2	6.3	3.9	1.3	0.9	2.7	2.1	1.3
72.5°	1048.8	270.6	11.2	6.1	4.7	3.4	1.1	0.5	2.4	1.8	1.1
75°	573.1	109.0	8.8	3.9	2.9	2.4	0.8	0.3	1.6	1.3	0.8
77.5°	150.8	28.8	6.4	2.6	1.6	0.9	0.5	0.2	0.8	0.7	0.3
80°	38.5	11.2	4.2	1.8	1.1	0.5	0.0	0.0	0.2	0.0	0.0
82.5°	20.5	4.7	2.6	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.5	3.1	1.5	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.9	0.5	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)