

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: P323306

Luminaire Tested: **GLEON-SA2A-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5806 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

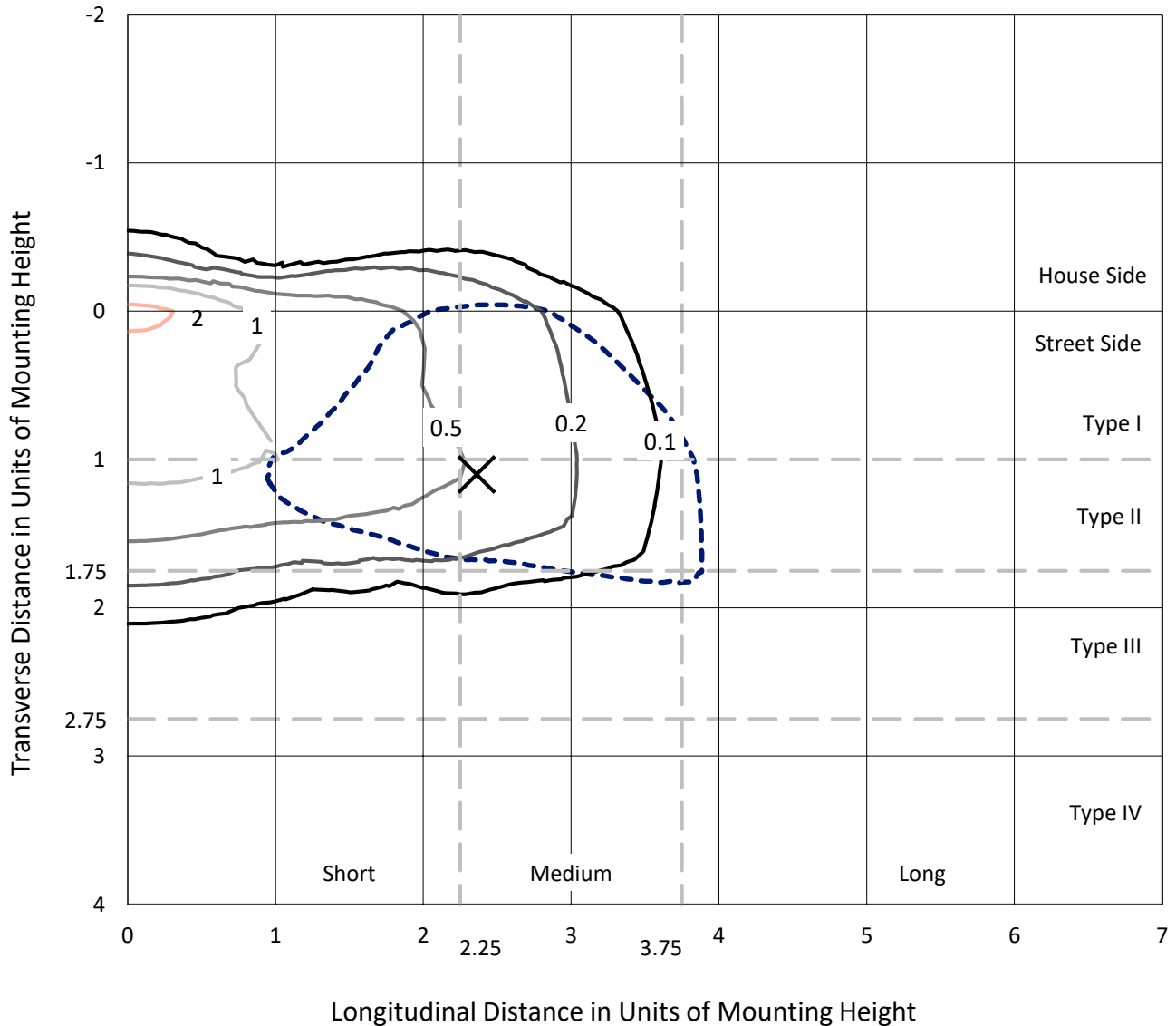
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

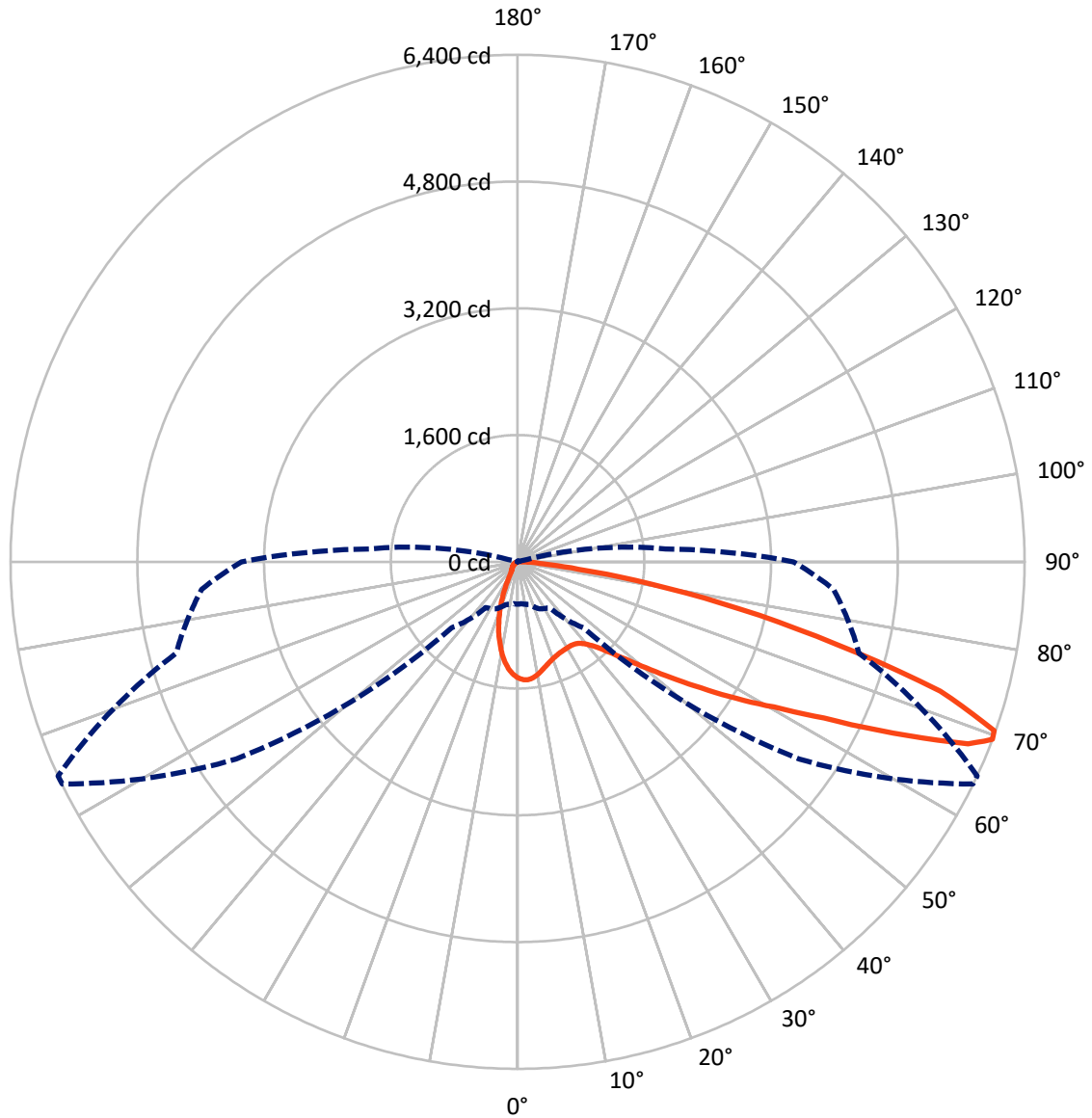
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	684.4	0.0	684.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5121.6	0.0	5121.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	5806.0	0.0	5806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	2.1
10°-20°	268.6	4.6
20°-30°	372.0	6.4
30°-40°	518.7	8.9
40°-50°	806.2	13.9
50°-60°	1294.2	22.3
60°-70°	1464.0	25.2
70°-80°	859.8	14.8
80°-90°	100.0	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°	5806.0	100.0
0°-180°	5806.0	100.0

Coefficient of Utilization

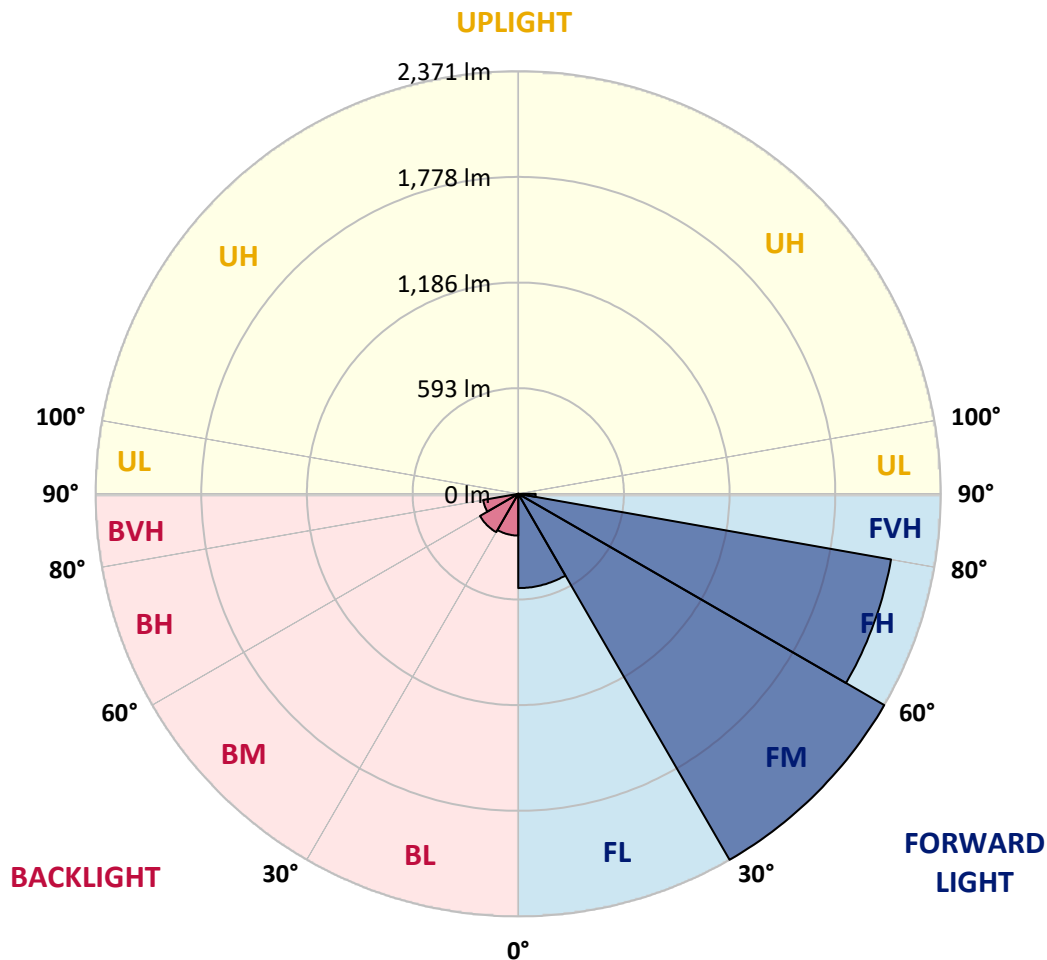


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.1	9.1			
FM (30°-60°)	2371.0	40.8			
FH (60°-80°)	2123.8	36.6			G2/5000
FVH (80°-90°)	97.8	1.7			G1/100
BL (0°-30°)	234.2	4.0	B1/500		
BM (30°-60°)	248.0	4.3	B1/1000		
BH (60°-80°)	200.0	3.4	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1480.2	1476.5	1479.5	1485.9	1489.1	1489.1	1491.5	1488.6	1489.5	1482.4	1472.1
5°	1387.6	1381.9	1390.0	1408.0	1430.1	1449.0	1477.0	1491.8	1493.2	1493.5	1481.4
7.5°	1287.8	1282.7	1294.7	1315.8	1344.3	1379.5	1428.4	1471.1	1473.6	1496.7	1487.8
10°	1206.8	1203.1	1217.1	1239.7	1273.1	1312.4	1372.4	1431.8	1438.9	1490.0	1486.8
12.5°	1142.4	1139.5	1152.7	1178.8	1212.9	1256.4	1319.0	1388.1	1397.7	1475.0	1481.9
15°	1095.5	1095.0	1106.0	1131.1	1168.9	1209.5	1273.6	1347.5	1358.6	1458.8	1481.2
17.5°	1070.9	1071.6	1079.8	1101.1	1133.6	1173.8	1235.3	1313.4	1325.4	1444.3	1484.9
20°	1068.5	1069.2	1073.6	1085.6	1111.9	1147.6	1204.1	1284.6	1297.2	1433.5	1490.8
22.5°	1090.1	1089.6	1090.8	1089.6	1104.3	1131.3	1183.4	1262.5	1277.0	1426.4	1495.4
25°	1131.6	1130.9	1130.4	1121.3	1111.4	1125.9	1174.8	1250.0	1263.8	1421.2	1498.1
27.5°	1189.3	1188.8	1188.1	1173.1	1143.6	1134.5	1175.8	1245.3	1256.9	1417.1	1497.7
30°	1265.2	1268.7	1267.7	1246.8	1200.9	1160.8	1186.1	1242.9	1253.0	1409.0	1492.5
32.5°	1354.4	1361.3	1366.7	1344.3	1286.9	1212.9	1210.0	1245.6	1253.0	1402.8	1483.2
35°	1447.0	1455.9	1475.8	1467.9	1392.3	1291.3	1251.0	1261.8	1267.9	1406.3	1478.7
37.5°	1538.2	1548.8	1592.0	1614.8	1530.3	1395.0	1314.9	1301.8	1305.0	1427.1	1483.6
40°	1644.1	1660.0	1725.6	1762.5	1695.2	1533.8	1410.4	1370.6	1371.9	1473.1	1506.5
42.5°	1783.1	1799.6	1870.6	1928.3	1880.9	1709.2	1540.2	1475.8	1474.6	1559.1	1560.3
45°	1952.6	1969.8	2043.3	2107.4	2086.0	1917.0	1706.2	1629.3	1627.9	1694.7	1662.3
47.5°	2144.8	2161.7	2227.3	2293.4	2316.5	2159.8	1917.8	1838.9	1835.5	1883.1	1819.7
50°	2309.6	2320.7	2381.1	2470.0	2574.2	2458.0	2180.9	2105.0	2101.3	2133.5	2050.9
52.5°	2369.6	2375.9	2437.4	2561.9	2821.9	2861.9	2526.5	2428.8	2426.1	2440.1	2358.8
55°	2248.2	2259.7	2335.2	2519.9	2956.0	3318.4	2962.9	2829.7	2809.3	2779.1	2680.6
57.5°	1917.5	1935.9	2017.0	2262.7	2893.3	3680.5	3604.1	3283.2	3253.3	3068.5	2942.2
60°	1436.7	1459.3	1526.6	1791.7	2559.0	3809.5	4304.8	3788.6	3721.0	3299.0	3182.8
62.5°	985.9	997.2	1042.9	1215.6	1884.6	3598.2	4890.9	4465.4	4342.1	3549.5	3442.9
65°	753.0	756.9	775.6	835.1	1122.3	2922.8	5124.1	5358.5	5209.3	3849.3	3712.9
67.5°	606.8	603.6	629.4	714.4	751.5	1783.1	4852.1	6203.4	6133.6	4250.0	3984.6
69°	535.1	530.7	557.0	655.7	705.8	1178.8	4337.7	6395.2	6399.7	4461.5	4003.3
70°	481.5	484.5	510.5	620.8	690.4	925.2	3846.3	6346.3	6381.2	4540.6	3891.3
72.5°	321.6	329.5	381.8	515.4	663.8	700.2	2322.4	5445.9	5580.1	4362.5	3338.5
75°	181.3	187.2	249.4	388.7	625.5	666.8	1226.7	4012.2	4141.9	3648.1	2574.5
77.5°	88.9	92.1	141.0	250.8	523.0	635.3	695.8	2725.3	2873.4	2381.1	1456.1
80°	37.6	39.3	70.5	154.8	373.9	606.3	516.7	1677.2	1695.7	932.8	387.9
82.5°	14.5	15.0	29.7	96.6	237.6	472.7	432.1	795.3	776.1	175.7	88.4
85°	1.7	2.0	10.8	58.0	132.2	243.2	351.1	342.7	317.2	34.9	45.5
87.5°	0.0	0.0	0.7	17.7	39.3	114.0	182.5	142.2	128.2	11.3	23.6
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°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1463.5	1461.0	1447.8	1428.6	1410.4	1387.8	1366.2	1353.2	1342.9	1336.0	1344.1
5°	1467.4	1456.6	1416.3	1364.7	1314.1	1257.1	1204.1	1159.1	1141.4	1121.8	1130.6
7.5°	1466.2	1445.8	1373.3	1281.5	1188.6	1092.5	1001.6	931.6	895.2	859.6	868.7
10°	1460.1	1425.7	1315.8	1179.7	1040.7	902.6	773.6	675.6	620.8	571.2	578.3
12.5°	1446.5	1398.6	1248.0	1063.3	877.3	695.3	544.2	418.6	351.3	321.6	325.3
15°	1438.4	1372.4	1176.3	945.4	702.9	484.2	332.6	247.4	216.7	206.9	208.1
17.5°	1434.5	1347.1	1102.1	810.5	524.5	308.3	215.0	189.7	183.0	181.3	181.8
20°	1430.6	1321.5	1025.7	677.1	361.4	207.4	176.6	169.3	166.8	164.6	165.1
22.5°	1423.9	1296.9	943.6	542.0	243.7	168.3	159.2	152.1	146.9	144.2	144.7
25°	1415.8	1271.1	859.9	403.6	177.9	150.1	141.5	131.4	125.3	120.4	120.6
27.5°	1402.8	1239.4	773.4	293.8	149.4	134.4	122.8	111.8	101.5	95.8	95.8
30°	1384.6	1203.6	677.3	210.3	133.9	118.9	104.9	91.1	80.1	74.9	74.4
32.5°	1364.5	1166.2	580.3	159.4	121.6	104.4	88.4	73.9	64.1	59.9	59.7
35°	1347.3	1125.9	483.5	133.6	109.3	90.4	73.0	60.7	52.8	49.4	49.1
37.5°	1336.2	1085.6	389.2	119.4	98.3	77.4	61.2	50.1	44.5	41.8	41.5
40°	1334.5	1055.7	302.9	108.6	88.0	65.8	51.1	42.5	37.3	34.4	34.1
42.5°	1356.9	1038.5	232.4	99.5	77.4	55.8	43.5	36.4	31.0	28.0	27.8
45°	1415.6	1043.9	178.9	91.4	66.8	47.2	36.9	30.2	25.3	23.1	22.6
47.5°	1522.7	1081.2	142.2	83.3	56.8	40.0	31.4	25.1	20.9	18.7	18.4
50°	1713.4	1168.9	118.9	74.4	47.4	34.1	26.0	20.4	17.0	15.0	14.7
52.5°	1966.4	1325.2	106.1	65.8	39.3	29.0	21.4	16.2	13.3	11.8	11.5
55°	2245.5	1514.4	97.8	56.5	32.2	24.1	17.0	12.8	10.3	9.1	8.6
57.5°	2517.9	1678.2	89.9	47.4	26.8	19.7	13.5	10.1	8.1	6.9	6.6
60°	2768.3	1828.8	80.8	38.1	21.9	15.5	10.6	7.9	6.4	5.2	5.2
62.5°	3036.3	1945.3	68.3	29.7	17.9	11.8	8.6	7.1	5.2	4.4	4.2
65°	3320.3	2031.8	53.6	23.1	14.0	8.8	7.1	7.4	4.2	3.2	2.9
67.5°	3530.1	2014.6	39.6	18.2	10.8	6.9	6.9	7.9	3.7	2.5	2.2
69°	3484.0	1874.8	33.2	15.7	9.3	5.9	6.4	7.9	3.4	2.2	2.0
70°	3350.1	1720.0	29.2	14.0	8.4	5.4	6.1	7.6	3.2	2.2	2.0
72.5°	2789.9	1295.5	22.8	10.6	6.6	4.4	5.2	6.6	3.2	2.2	1.7
75°	2098.6	829.2	17.4	7.6	4.9	3.4	3.9	4.9	3.2	2.0	1.7
77.5°	1141.9	299.0	12.5	5.2	3.4	2.7	2.7	3.7	2.9	1.5	1.0
80°	293.6	75.2	7.9	3.4	2.7	2.0	1.7	2.5	1.7	0.2	0.0
82.5°	72.5	17.0	4.2	2.5	2.0	0.7	0.7	1.2	0.7	0.0	0.0
85°	39.8	8.4	2.7	1.7	1.0	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	20.4	2.5	0.7	0.5	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)