

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: P382800

Luminaire Tested: **GLEON-SA1D-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382800
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-SA1D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 6268.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

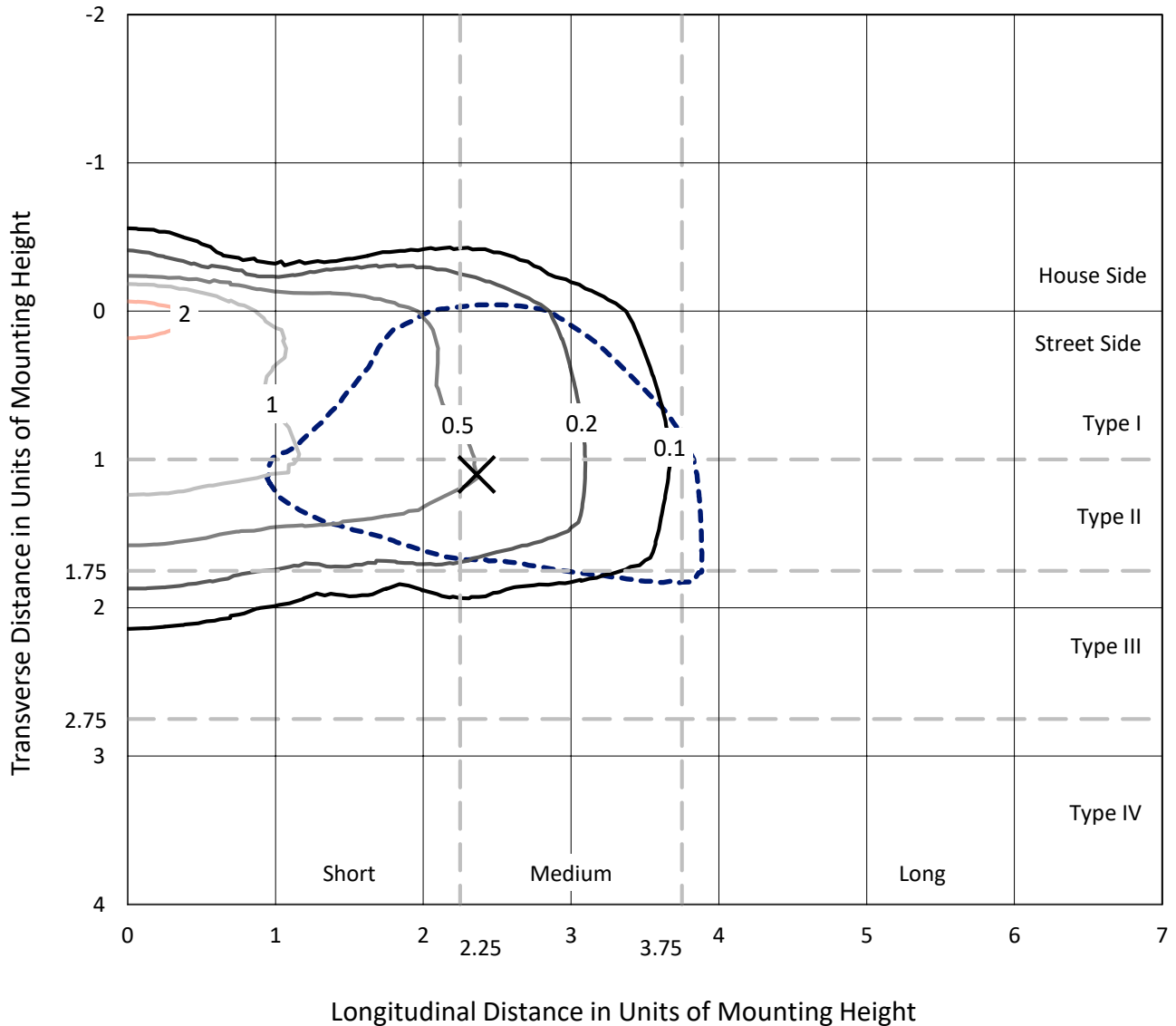
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

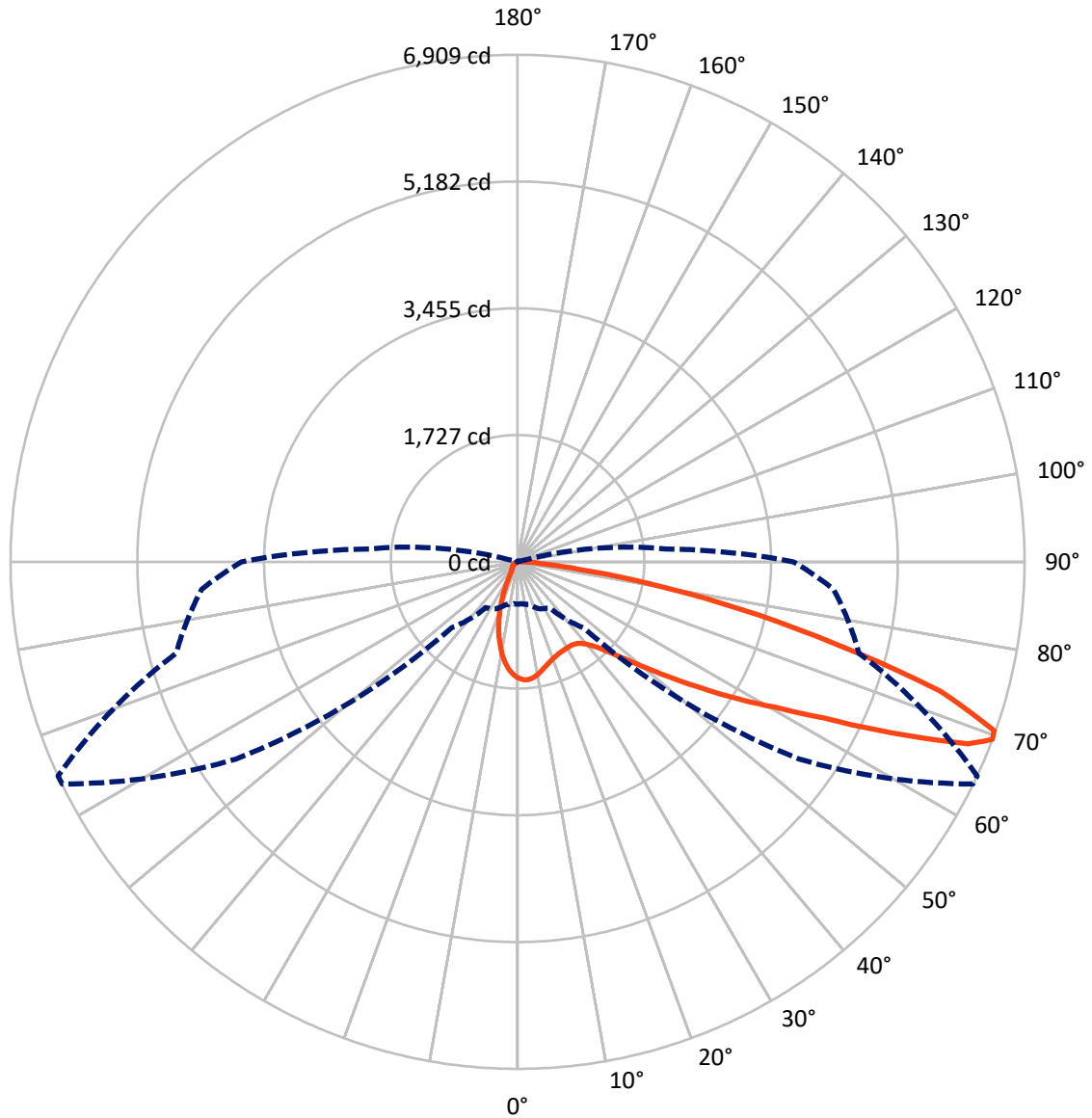
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	738.9	0.0	738.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5529.5	0.0	5529.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	6268.4	0.0	6268.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	2.1
10°-20°	290.0	4.6
20°-30°	401.6	6.4
30°-40°	560.0	8.9
40°-50°	870.4	13.9
50°-60°	1397.3	22.3
60°-70°	1580.5	25.2
70°-80°	928.3	14.8
80°-90°	108.0	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°	6268.4	100.0
0°-180°	6268.4	100.0

Coefficient of Utilization

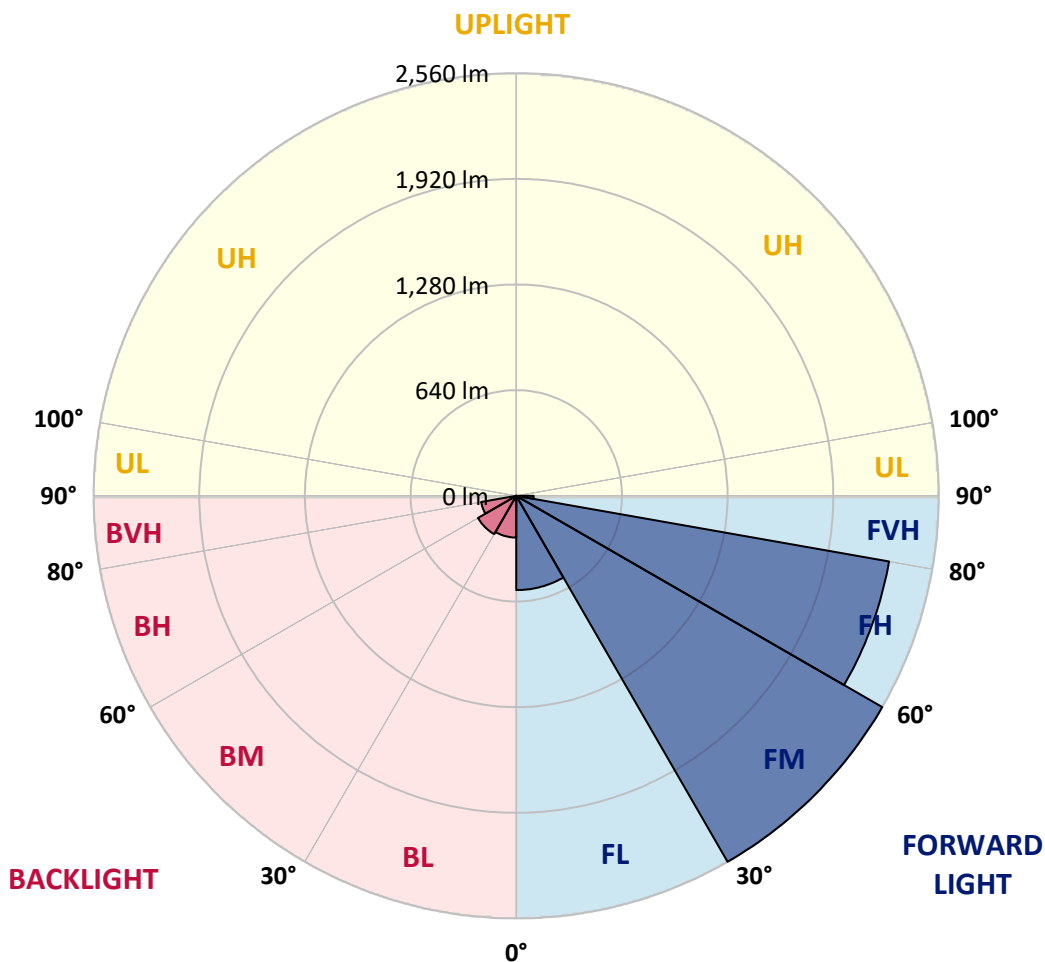


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.2	9.1			
FM (30°-60°)	2559.8	40.8			
FH (60°-80°)	2292.9	36.6			G2/5000
FVH (80°-90°)	105.5	1.7			G2/225
BL (0°-30°)	252.8	4.0	B1/500		
BM (30°-60°)	267.8	4.3	B1/1000		
BH (60°-80°)	215.9	3.4	B1/500		G1/500
BVH (80°-90°)	2.4	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°	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0
2.5°	1598.1	1594.1	1597.3	1604.2	1607.7	1607.7	1610.3	1607.1	1608.1	1600.5	1589.3
5°	1498.1	1492.0	1500.7	1520.1	1543.9	1564.4	1594.6	1610.6	1612.1	1612.4	1599.4
7.5°	1390.4	1384.8	1397.8	1420.6	1451.4	1489.4	1542.1	1588.3	1590.9	1615.9	1606.3
10°	1302.9	1298.9	1314.0	1338.4	1374.5	1416.9	1481.6	1545.8	1553.5	1608.7	1605.2
12.5°	1233.4	1230.2	1244.5	1272.7	1309.5	1356.4	1424.1	1498.6	1509.0	1592.5	1599.9
15°	1182.7	1182.2	1194.2	1221.2	1262.1	1305.8	1375.1	1454.9	1466.8	1575.0	1599.2
17.5°	1156.2	1157.0	1165.7	1188.8	1223.9	1267.4	1333.6	1418.0	1431.0	1559.3	1603.1
20°	1153.5	1154.4	1159.1	1172.1	1200.5	1239.0	1300.0	1387.0	1400.5	1547.7	1609.5
22.5°	1176.9	1176.4	1177.7	1176.4	1192.3	1221.4	1277.7	1363.0	1378.7	1540.0	1614.6
25°	1221.7	1220.9	1220.4	1210.5	1199.9	1215.6	1268.4	1349.5	1364.4	1534.4	1617.4
27.5°	1284.0	1283.5	1282.7	1266.5	1234.7	1224.9	1269.4	1344.5	1357.0	1529.9	1616.9
30°	1366.0	1369.7	1368.6	1346.1	1296.5	1253.3	1280.6	1341.9	1352.7	1521.1	1611.4
32.5°	1462.3	1469.7	1475.6	1451.4	1389.3	1309.5	1306.3	1344.8	1352.7	1514.5	1601.2
35°	1562.3	1571.8	1593.3	1584.8	1503.1	1394.2	1350.7	1362.3	1368.9	1518.2	1596.5
37.5°	1660.7	1672.1	1718.8	1743.5	1652.2	1506.0	1419.6	1405.5	1409.0	1540.8	1601.8
40°	1775.0	1792.2	1863.1	1902.9	1830.2	1655.9	1522.8	1479.8	1481.2	1590.4	1626.5
42.5°	1925.1	1942.9	2019.6	2081.9	2030.7	1845.3	1662.8	1593.3	1592.0	1683.2	1684.5
45°	2108.2	2126.7	2206.0	2275.2	2252.2	2069.7	1842.1	1759.1	1757.5	1829.7	1794.6
47.5°	2315.5	2333.9	2404.7	2476.1	2501.0	2331.8	2070.5	1985.3	1981.6	2033.1	1964.6
50°	2493.6	2505.5	2570.7	2666.7	2779.2	2653.8	2354.6	2272.6	2268.6	2303.3	2214.3
52.5°	2558.3	2565.2	2631.4	2766.0	3046.6	3089.9	2727.8	2622.2	2619.2	2634.4	2546.6
55°	2427.2	2439.7	2521.1	2720.6	3191.4	3582.6	3198.8	3055.1	3033.0	3000.4	2894.0
57.5°	2070.2	2090.1	2177.7	2442.9	3123.8	3973.6	3891.1	3544.7	3512.3	3312.9	3176.6
60°	1551.1	1575.5	1648.2	1934.5	2762.8	4112.9	4647.6	4090.3	4017.4	3561.7	3436.2
62.5°	1064.4	1076.6	1126.0	1312.5	2034.7	3884.7	5280.5	4821.0	4687.9	3832.2	3717.2
65°	813.0	817.2	837.4	901.6	1211.7	3155.6	5532.2	5785.2	5624.2	4155.8	4008.6
67.5°	655.2	651.7	679.6	771.3	811.4	1925.1	5238.6	6697.4	6622.1	4588.4	4302.0
69°	577.7	572.9	601.3	708.0	762.0	1272.7	4683.2	6904.5	6909.3	4816.8	4322.1
70°	519.9	523.1	551.2	670.2	745.3	998.9	4152.7	6851.7	6889.4	4902.2	4201.2
72.5°	347.2	355.7	412.2	556.5	716.7	756.0	2507.4	5879.6	6024.5	4709.9	3604.3
75°	195.7	202.1	269.2	419.6	675.3	719.9	1324.4	4331.7	4471.7	3938.6	2779.5
77.5°	96.0	99.5	152.2	270.8	564.7	685.9	751.2	2942.4	3102.2	2570.7	1572.1
80°	40.6	42.5	76.1	167.1	403.7	654.6	557.8	1810.8	1830.7	1007.1	418.8
82.5°	15.6	16.2	32.1	104.2	256.5	510.3	466.5	858.6	837.9	189.7	95.5
85°	1.9	2.1	11.6	62.6	142.7	262.6	379.0	370.0	342.4	37.6	49.1
87.5°	0.0	0.0	0.8	19.1	42.5	123.1	197.1	153.6	138.4	12.2	25.4
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°	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0	1584.0
2.5°	1580.1	1577.4	1563.0	1542.4	1522.8	1498.4	1475.0	1460.9	1449.9	1442.4	1451.2
5°	1584.3	1572.6	1529.1	1473.4	1418.7	1357.3	1300.0	1251.4	1232.3	1211.1	1220.6
7.5°	1583.0	1561.0	1482.7	1383.5	1283.2	1179.5	1081.4	1005.8	966.6	928.1	937.9
10°	1576.4	1539.2	1420.6	1273.7	1123.5	974.5	835.2	729.4	670.2	616.7	624.4
12.5°	1561.7	1510.0	1347.4	1147.9	947.2	750.6	587.5	452.0	379.3	347.2	351.2
15°	1553.0	1481.6	1270.0	1020.7	758.8	522.8	359.1	267.1	233.9	223.3	224.7
17.5°	1548.8	1454.3	1189.9	875.0	566.3	332.8	232.0	204.8	197.6	195.7	196.3
20°	1544.5	1426.8	1107.4	731.0	390.1	223.9	190.7	182.8	180.1	177.7	178.2
22.5°	1537.3	1400.2	1018.8	585.1	263.2	181.7	171.9	164.2	158.6	155.7	156.2
25°	1528.6	1372.4	928.4	435.8	192.0	162.1	152.8	141.9	135.3	130.0	130.2
27.5°	1514.5	1338.2	834.9	317.2	161.3	145.0	132.7	120.7	109.5	103.4	103.4
30°	1494.9	1299.4	731.3	227.0	144.6	128.4	113.3	98.4	86.4	80.9	80.4
32.5°	1473.1	1259.1	626.5	172.1	131.3	112.7	95.5	79.8	69.2	64.7	64.5
35°	1454.6	1215.6	522.0	144.3	118.0	97.6	78.8	65.5	57.0	53.3	53.0
37.5°	1442.7	1172.1	420.1	128.9	106.1	83.6	66.0	54.1	48.0	45.1	44.8
40°	1440.8	1139.7	327.1	117.3	94.9	71.1	55.1	45.9	40.3	37.2	36.9
42.5°	1465.0	1121.2	251.0	107.4	83.6	60.2	46.9	39.2	33.4	30.3	30.0
45°	1528.3	1127.0	193.1	98.7	72.1	51.0	39.8	32.6	27.3	25.0	24.4
47.5°	1644.0	1167.3	153.6	89.9	61.3	43.2	33.9	27.0	22.5	20.1	19.9
50°	1849.8	1262.1	128.4	80.4	51.2	36.9	28.1	22.0	18.3	16.2	15.9
52.5°	2123.0	1430.8	114.6	71.1	42.5	31.3	23.1	17.5	14.3	12.8	12.5
55°	2424.4	1635.0	105.5	61.0	34.7	26.0	18.3	13.8	11.2	9.8	9.3
57.5°	2718.4	1811.9	97.1	51.2	28.9	21.2	14.6	10.9	8.8	7.5	7.2
60°	2988.8	1974.5	87.3	41.1	23.6	16.7	11.4	8.5	6.9	5.6	5.6
62.5°	3278.1	2100.2	73.8	32.1	19.4	12.8	9.3	7.7	5.6	4.8	4.5
65°	3584.8	2193.5	57.8	25.0	15.1	9.6	7.7	7.9	4.5	3.4	3.2
67.5°	3811.2	2175.0	42.7	19.7	11.6	7.5	7.5	8.5	4.0	2.6	2.4
69°	3761.4	2024.1	35.8	17.0	10.1	6.3	6.9	8.5	3.7	2.4	2.1
70°	3616.8	1856.9	31.6	15.1	9.0	5.9	6.6	8.2	3.4	2.4	2.1
72.5°	3012.1	1398.6	24.7	11.4	7.2	4.8	5.6	7.2	3.4	2.4	1.9
75°	2265.7	895.2	18.8	8.2	5.3	3.7	4.3	5.3	3.4	2.1	1.9
77.5°	1232.8	322.8	13.5	5.6	3.7	2.9	2.9	4.0	3.2	1.6	1.0
80°	317.0	81.1	8.5	3.7	2.9	2.1	1.9	2.6	1.9	0.3	0.0
82.5°	78.2	18.3	4.5	2.6	2.1	0.8	0.8	1.3	0.8	0.0	0.0
85°	42.9	9.0	2.9	1.9	1.0	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	22.0	2.6	0.8	0.6	0.3	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)