

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: P451271

Luminaire Tested: **GALN-SA2A-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 5592 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

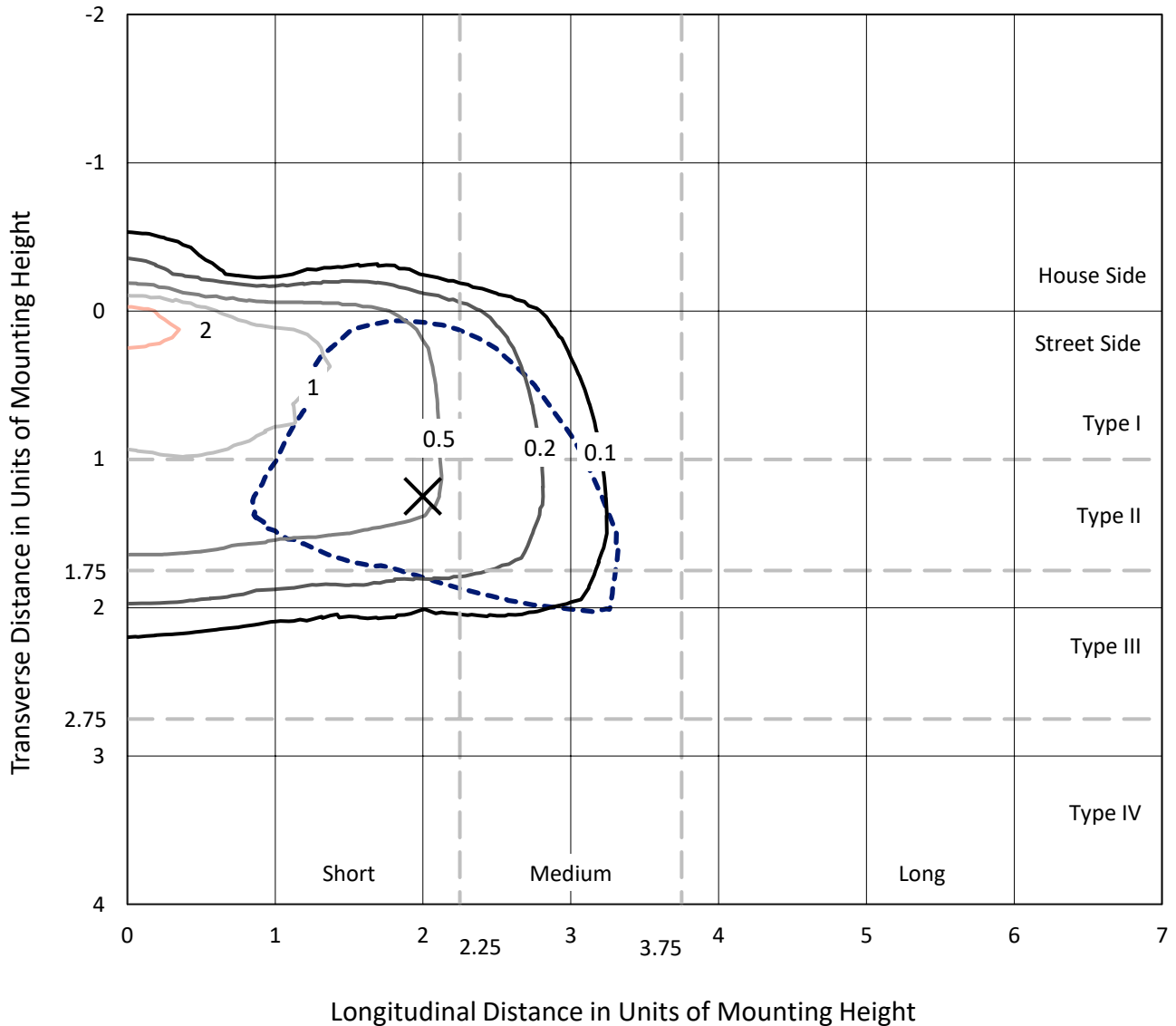
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

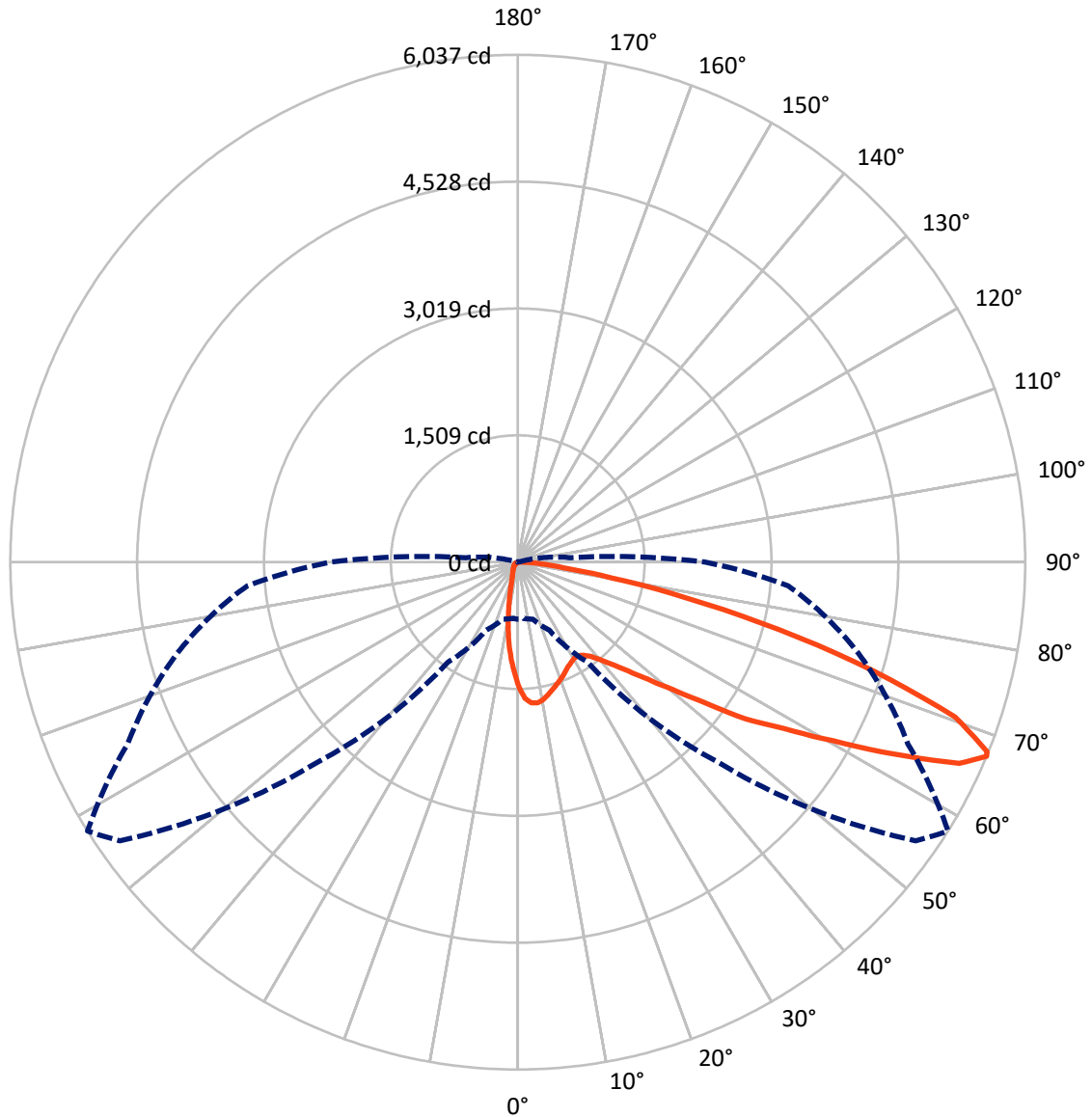
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.5	0.0	403.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5188.5	0.0	5188.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	5592.0	0.0	5592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	2.2
10°-20°	259.8	4.6
20°-30°	352.0	6.3
30°-40°	488.3	8.7
40°-50°	778.7	13.9
50°-60°	1346.1	24.1
60°-70°	1537.7	27.5
70°-80°	641.1	11.5
80°-90°	68.0	1.2
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°	5592.0	100.0
0°-180°	5592.0	100.0

Coefficient of Utilization



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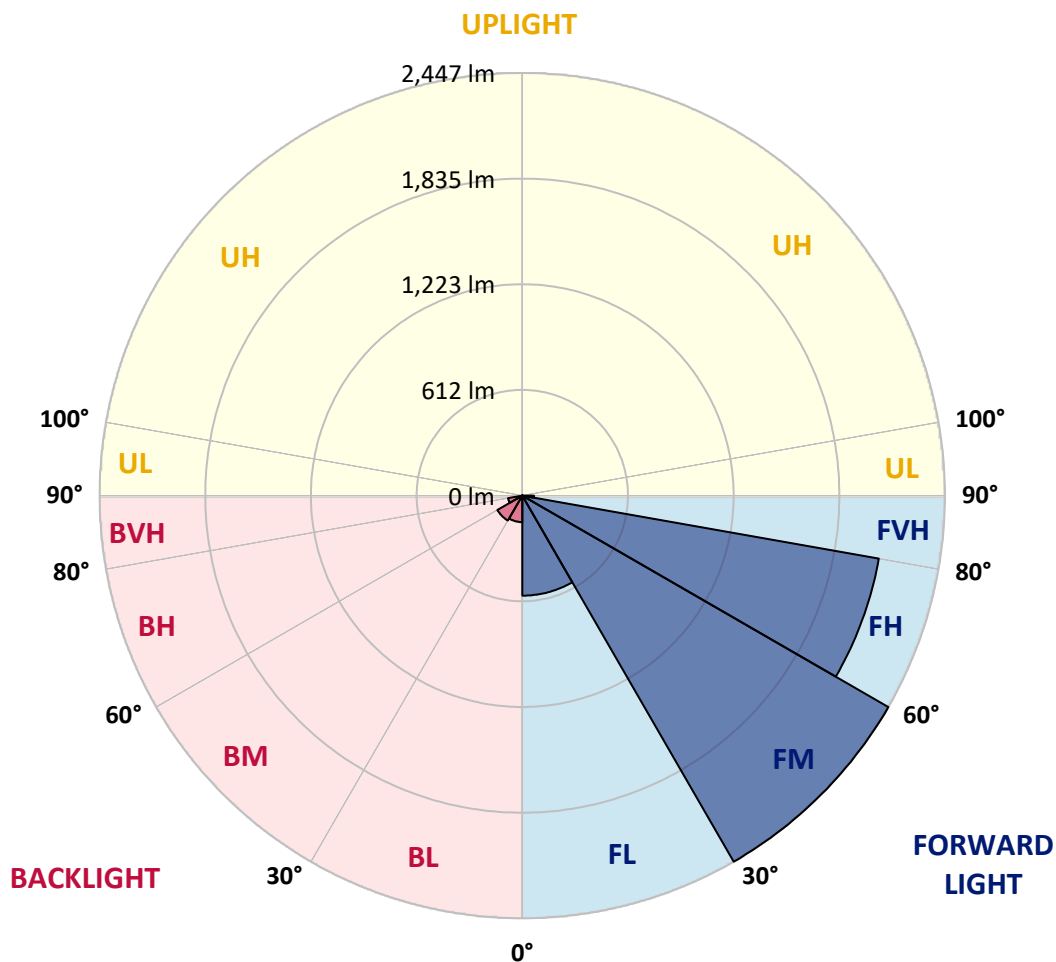
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.9	10.4			
FM (30°-60°)	2446.7	43.8			
FH (60°-80°)	2095.3	37.5			G2/5000
FVH (80°-90°)	67.5	1.2			G1/100
BL (0°-30°)	153.2	2.7	B1/500		
BM (30°-60°)	166.4	3.0	B0/220		
BH (60°-80°)	83.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4
2.5°	1720.4	1723.0	1713.3	1705.5	1685.3	1663.6	1634.8	1619.5	1593.4	1548.2	1498.1
5°	1760.8	1764.1	1762.6	1760.8	1752.9	1732.0	1695.4	1681.9	1643.4	1569.8	1479.4
7.5°	1671.1	1683.4	1684.9	1699.5	1713.3	1715.2	1701.4	1691.3	1655.8	1569.5	1446.1
10°	1552.3	1560.5	1572.4	1589.3	1622.5	1650.2	1663.6	1662.1	1641.6	1557.9	1407.3
12.5°	1432.3	1436.8	1455.1	1483.9	1524.6	1571.7	1607.6	1614.7	1615.0	1544.0	1374.8
15°	1329.2	1327.3	1341.5	1374.8	1431.9	1491.0	1555.3	1566.5	1584.4	1530.6	1344.5
17.5°	1241.0	1250.7	1252.9	1289.6	1342.3	1418.9	1500.7	1520.5	1556.4	1519.0	1319.5
20°	1186.4	1191.7	1196.5	1217.1	1264.5	1345.2	1449.5	1476.8	1530.2	1508.5	1291.4
22.5°	1170.4	1173.7	1169.6	1176.0	1209.6	1281.3	1393.8	1430.1	1505.2	1498.8	1268.6
25°	1182.7	1186.1	1176.3	1168.9	1180.5	1229.4	1340.0	1384.1	1485.0	1497.0	1251.5
27.5°	1212.6	1218.9	1205.5	1192.0	1185.3	1201.4	1297.8	1349.0	1471.2	1505.9	1243.6
30°	1259.3	1263.0	1252.9	1236.5	1221.2	1205.1	1275.7	1324.7	1467.4	1526.9	1242.9
32.5°	1310.1	1318.0	1312.4	1301.5	1281.7	1243.6	1282.1	1325.4	1476.4	1557.1	1252.2
35°	1372.9	1381.9	1387.1	1384.9	1359.4	1312.0	1322.5	1359.1	1500.3	1612.8	1277.6
37.5°	1434.6	1442.4	1471.9	1482.0	1459.6	1414.8	1400.9	1425.2	1553.0	1685.7	1323.6
40°	1505.2	1515.6	1557.1	1595.6	1584.8	1537.7	1512.3	1532.5	1633.7	1795.5	1410.6
42.5°	1572.8	1591.5	1654.7	1722.7	1732.8	1680.1	1663.2	1670.0	1753.3	1953.6	1532.1
45°	1668.9	1686.4	1767.9	1860.2	1907.6	1866.5	1849.3	1848.2	1917.4	2175.9	1729.0
47.5°	1807.5	1823.2	1919.2	2010.4	2094.8	2100.5	2067.9	2079.2	2123.6	2436.0	1970.4
50°	1977.5	2014.5	2077.7	2172.6	2285.4	2376.6	2386.7	2371.7	2409.9	2737.2	2260.4
52.5°	2224.5	2238.7	2296.6	2374.7	2507.0	2661.7	2781.7	2761.1	2749.2	3024.2	2553.4
55°	2408.7	2427.8	2517.9	2625.1	2819.0	3023.1	3283.2	3290.3	3139.3	3300.0	2840.0
57.5°	2353.1	2382.2	2518.6	2734.2	3160.6	3533.5	3727.1	3731.9	3500.3	3567.9	3163.6
60°	2067.2	2081.0	2276.5	2564.2	3189.7	4086.6	4356.7	4317.5	3867.6	3867.6	3449.4
62.5°	1465.9	1487.6	1646.1	2069.4	2880.7	4278.6	5110.8	5029.7	4373.5	4154.2	3619.8
65°	936.8	915.9	1020.9	1306.4	2146.0	3995.0	5767.4	5772.2	4849.6	4268.9	3526.8
67°	678.6	670.4	700.6	893.1	1455.1	3358.3	5781.2	6037.2	5123.2	4196.4	3229.3
67.5°	620.7	627.0	649.1	805.7	1322.1	3056.0	5718.4	6021.5	5184.8	4152.7	3121.7
70°	470.5	459.6	483.5	569.9	792.6	1927.8	4919.1	5522.6	5108.2	3718.9	2494.3
72.5°	346.0	344.9	378.2	466.0	610.2	1026.9	3692.7	4428.1	4173.3	2831.7	1570.6
75°	233.5	244.0	297.1	389.4	553.0	665.9	2517.5	3212.5	2897.1	1607.9	642.0
77.5°	133.0	133.8	191.3	312.8	496.6	535.9	1491.7	2046.6	1533.6	534.7	190.6
80°	57.5	63.2	94.9	227.2	411.8	474.6	855.4	1124.8	620.3	113.2	61.7
82.5°	21.3	25.0	41.9	139.8	300.4	390.9	516.8	537.0	210.4	40.0	38.5
85°	0.0	0.7	15.3	65.4	156.6	174.5	345.3	318.4	93.0	19.1	25.0
87.5°	0.0	0.0	0.0	6.7	20.6	65.0	107.2	119.6	22.4	6.7	6.0
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°	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4
2.5°	1471.2	1446.9	1386.0	1325.1	1279.9	1242.1	1185.3	1154.3	1137.9	1113.6	1115.1
5°	1434.2	1384.9	1277.6	1166.6	1076.9	989.5	884.9	842.6	807.1	787.0	773.5
7.5°	1379.3	1306.4	1147.6	999.6	861.7	708.9	594.2	517.5	466.0	446.9	428.6
10°	1319.1	1222.3	1015.7	810.5	619.2	461.5	364.3	294.1	269.0	245.9	248.1
12.5°	1263.4	1145.7	894.6	639.7	433.8	293.3	228.7	199.9	191.7	189.1	189.1
15°	1217.8	1072.5	764.5	480.9	297.4	210.8	183.1	175.3	172.3	171.5	171.5
17.5°	1169.2	1003.0	647.2	355.4	216.4	176.4	167.0	161.8	160.7	159.9	159.9
20°	1125.9	933.1	535.9	264.6	174.9	158.8	152.8	149.5	148.4	147.6	148.0
22.5°	1084.8	871.0	431.2	199.9	154.0	144.6	138.6	135.3	133.0	131.2	131.5
25°	1048.2	811.3	346.8	163.7	138.6	130.4	124.4	119.6	114.7	112.5	112.1
27.5°	1022.4	758.9	270.2	140.1	124.8	115.8	108.4	102.4	96.0	92.7	91.9
30°	1001.1	705.9	213.7	123.7	111.0	102.4	93.0	84.5	77.7	74.4	72.9
32.5°	987.3	655.4	168.5	110.2	99.4	88.9	78.5	69.9	62.4	59.0	58.3
35°	985.0	613.2	137.9	99.0	88.9	77.7	66.9	57.5	51.2	47.8	47.1
37.5°	1001.1	580.7	115.5	90.1	80.3	68.0	56.1	47.5	41.9	39.2	38.9
40°	1044.1	560.1	100.1	82.6	72.5	59.0	47.8	40.4	34.8	32.1	32.1
42.5°	1125.9	560.9	90.1	75.5	64.6	50.4	40.7	33.6	28.8	26.5	25.8
45°	1253.7	586.3	81.5	68.4	57.2	43.7	34.8	27.7	22.8	20.9	20.9
47.5°	1424.8	636.8	74.0	61.3	50.4	37.4	29.5	22.4	18.3	16.4	16.4
50°	1648.7	717.8	67.6	55.3	44.8	32.1	23.9	18.3	14.2	12.7	12.3
52.5°	1882.6	818.0	60.2	50.1	38.5	27.3	19.4	14.2	10.8	9.7	9.3
55°	2140.8	915.9	53.1	44.8	31.4	22.8	15.3	11.2	7.8	6.7	6.7
57.5°	2401.3	1011.9	44.5	37.4	24.7	16.8	12.0	8.2	5.2	4.1	4.1
60°	2621.7	1042.9	37.7	30.3	18.7	12.0	8.6	5.2	3.0	1.9	1.9
62.5°	2652.0	938.3	31.8	23.2	13.5	8.2	4.5	3.0	1.1	0.7	0.7
65°	2487.6	762.3	26.5	17.6	9.0	4.1	1.9	1.1	0.4	0.0	0.0
67°	2229.0	618.1	21.7	13.1	6.4	2.6	1.1	0.4	0.0	0.0	0.0
67.5°	2162.9	589.3	20.9	12.3	5.6	2.2	0.7	0.4	0.0	0.0	0.0
70°	1697.3	441.3	14.9	7.5	3.4	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1054.9	249.6	10.8	4.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0
75°	398.7	87.4	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	124.1	33.3	4.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.9	12.7	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.8	5.2	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.7	0.4	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)