

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: P450952

Luminaire Tested: **GALN-SA1D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450952
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-SA1D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 6475 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

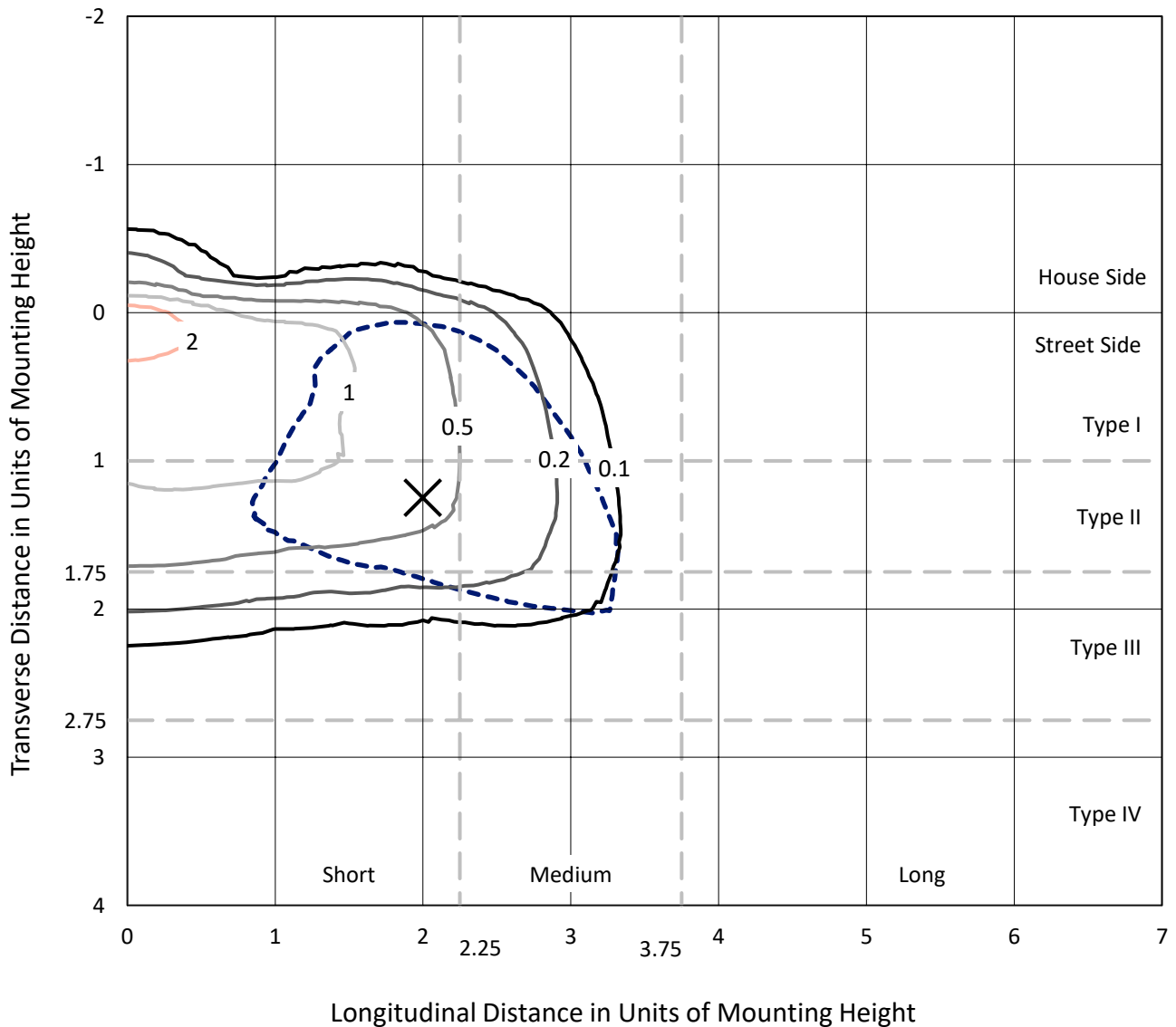
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

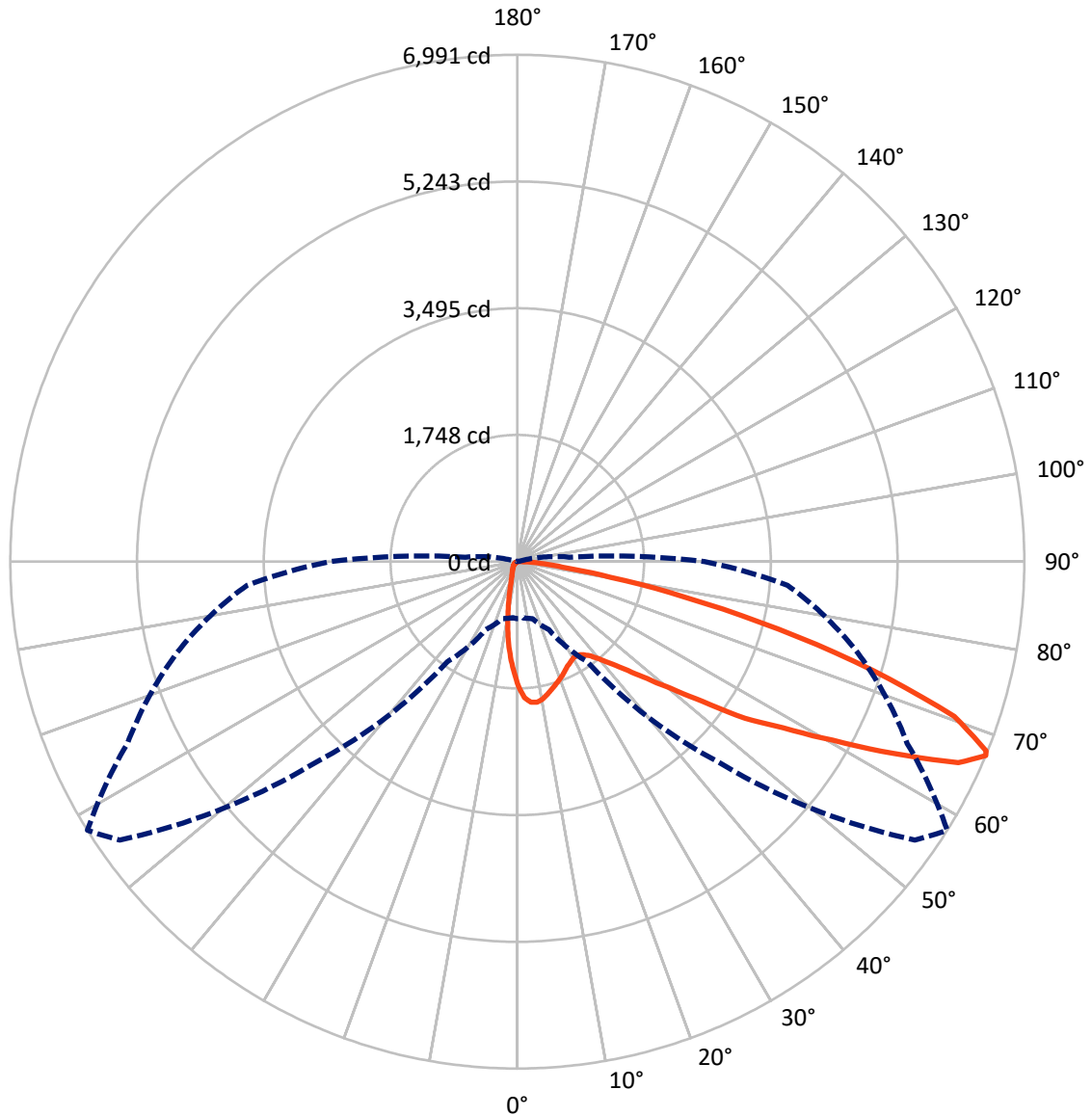
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	467.3	0.0	467.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6007.7	0.0	6007.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	6475.0	0.0	6475.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	2.2
10°-20°	300.8	4.6
20°-30°	407.6	6.3
30°-40°	565.4	8.7
40°-50°	901.7	13.9
50°-60°	1558.7	24.1
60°-70°	1780.5	27.5
70°-80°	742.3	11.5
80°-90°	78.7	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°	6475.0	100.0
0°-180°	6475.0	100.0



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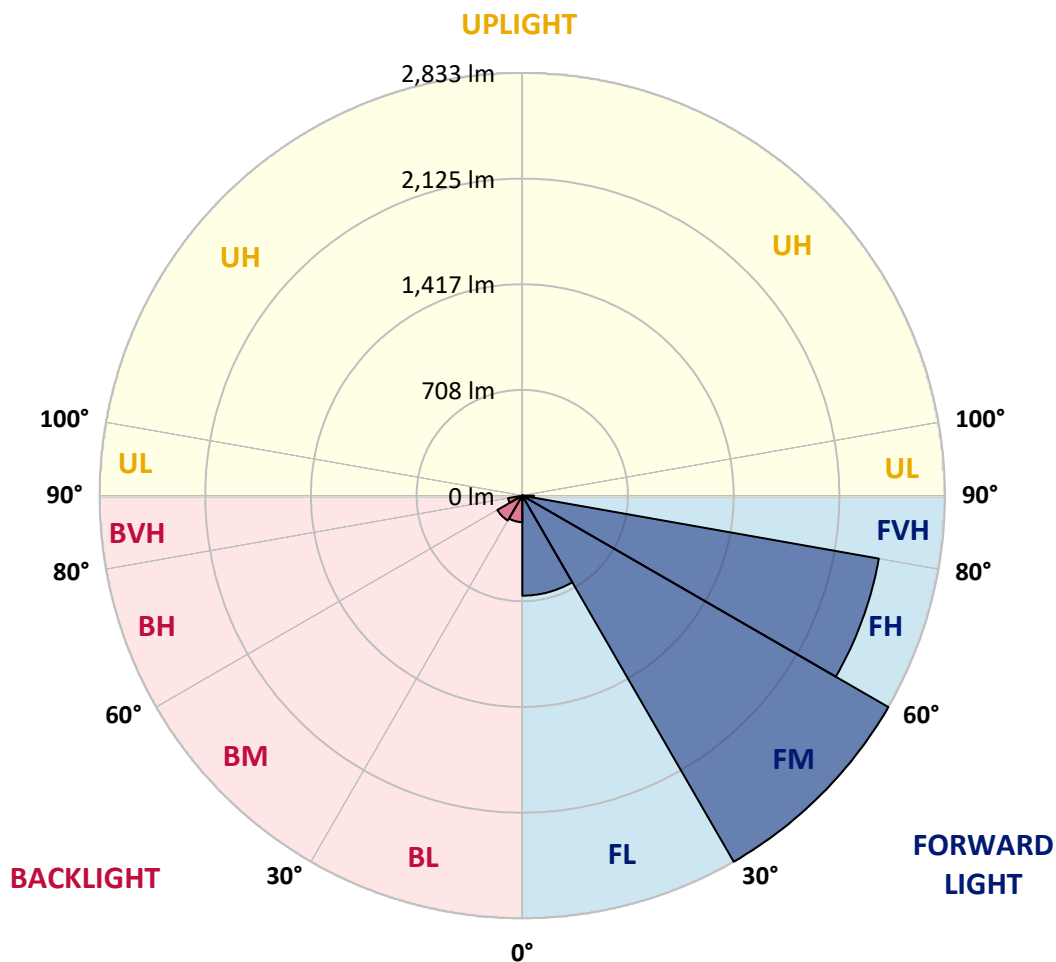
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.3	10.4			
FM (30°-60°)	2833.1	43.8			
FH (60°-80°)	2426.2	37.5			G2/5000
FVH (80°-90°)	78.1	1.2			G1/100
BL (0°-30°)	177.4	2.7	B1/500		
BM (30°-60°)	192.7	3.0	B0/220		
BH (60°-80°)	96.6	1.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5
2.5°	1992.1	1995.1	1983.9	1974.8	1951.4	1926.3	1893.0	1875.3	1845.0	1792.6	1734.6
5°	2038.8	2042.7	2041.0	2038.8	2029.7	2005.5	1963.1	1947.5	1903.0	1817.7	1713.0
7.5°	1935.0	1949.2	1951.0	1967.9	1983.9	1986.0	1970.0	1958.3	1917.2	1817.3	1674.5
10°	1797.4	1806.9	1820.7	1840.2	1878.7	1910.7	1926.3	1924.6	1900.8	1803.9	1629.5
12.5°	1658.5	1663.7	1684.9	1718.2	1765.4	1819.9	1861.4	1869.6	1870.1	1787.9	1591.8
15°	1539.1	1536.9	1553.3	1591.8	1658.1	1726.4	1800.8	1813.8	1834.6	1772.3	1556.8
17.5°	1436.9	1448.2	1450.8	1493.2	1554.2	1642.9	1737.7	1760.6	1802.1	1758.9	1527.8
20°	1373.8	1379.8	1385.5	1409.3	1464.2	1557.7	1678.4	1710.0	1771.8	1746.8	1495.4
22.5°	1355.2	1359.1	1354.3	1361.7	1400.6	1483.7	1613.9	1655.9	1742.9	1735.5	1469.0
25°	1369.4	1373.3	1362.1	1353.4	1366.9	1423.5	1551.6	1602.7	1719.5	1733.3	1449.1
27.5°	1404.1	1411.4	1395.8	1380.3	1372.5	1391.1	1502.7	1562.0	1703.5	1743.7	1440.0
30°	1458.1	1462.5	1450.8	1431.8	1414.0	1395.4	1477.2	1533.9	1699.2	1768.0	1439.1
32.5°	1517.0	1526.1	1519.6	1507.0	1484.1	1440.0	1484.5	1534.7	1709.5	1803.0	1449.9
35°	1589.7	1600.1	1606.1	1603.5	1574.1	1519.2	1531.3	1573.7	1737.2	1867.5	1479.4
37.5°	1661.1	1670.2	1704.3	1716.0	1690.1	1638.1	1622.1	1650.3	1798.2	1951.8	1532.6
40°	1742.9	1755.0	1803.0	1847.6	1835.0	1780.5	1751.1	1774.4	1891.7	2079.1	1633.4
42.5°	1821.2	1842.8	1915.9	1994.7	2006.4	1945.4	1925.9	1933.7	2030.2	2262.1	1774.0
45°	1932.4	1952.7	2047.0	2153.9	2208.9	2161.3	2141.4	2140.1	2220.1	2519.5	2002.0
47.5°	2092.9	2111.1	2222.3	2327.8	2425.6	2432.1	2394.5	2407.5	2459.0	2820.7	2281.6
50°	2289.8	2332.6	2405.7	2515.6	2646.3	2751.9	2763.6	2746.3	2790.4	3169.4	2617.3
52.5°	2575.8	2592.2	2659.3	2749.7	2902.9	3082.0	3220.9	3197.1	3183.3	3501.7	2956.5
55°	2789.1	2811.2	2915.4	3039.6	3264.2	3500.4	3801.6	3809.8	3635.0	3821.0	3288.4
57.5°	2724.6	2758.4	2916.3	3166.0	3659.7	4091.5	4315.6	4321.2	4053.0	4131.3	3663.1
60°	2393.6	2409.6	2635.9	2969.1	3693.4	4731.8	5044.7	4999.2	4478.3	4478.3	3994.1
62.5°	1697.4	1722.5	1906.0	2396.2	3335.6	4954.2	5917.8	5823.9	5064.2	4810.2	4191.4
65°	1084.7	1060.5	1182.1	1512.7	2484.9	4625.8	6678.1	6683.7	5615.4	4943.0	4083.7
67°	785.8	776.2	811.3	1034.1	1684.9	3888.5	6694.1	6990.5	5932.1	4859.1	3739.3
67.5°	718.7	726.0	751.6	932.9	1530.8	3538.5	6621.4	6972.3	6003.5	4808.4	3614.7
70°	544.8	532.2	559.9	659.8	917.7	2232.2	5695.9	6394.7	5914.8	4306.1	2888.2
72.5°	400.7	399.4	437.9	539.6	706.6	1189.0	4275.8	5127.3	4832.2	3278.9	1818.6
75°	270.4	282.5	344.0	450.9	640.4	771.0	2915.0	3719.8	3354.6	1861.8	743.4
77.5°	154.0	154.9	221.5	362.2	575.0	620.5	1727.3	2369.8	1775.7	619.2	220.7
80°	66.6	73.1	109.9	263.1	476.8	549.5	990.4	1302.4	718.3	131.1	71.4
82.5°	24.7	29.0	48.5	161.8	347.9	452.6	598.4	621.8	243.6	46.3	44.6
85°	0.0	0.9	17.7	75.7	181.3	202.1	399.8	368.6	107.7	22.1	29.0
87.5°	0.0	0.0	0.0	7.8	23.8	75.3	124.2	138.5	26.0	7.8	6.9
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°	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5	1716.5
2.5°	1703.5	1675.4	1604.8	1534.3	1481.9	1438.2	1372.5	1336.6	1317.5	1289.4	1291.1
5°	1660.6	1603.5	1479.4	1350.8	1247.0	1145.8	1024.6	975.7	934.6	911.2	895.7
7.5°	1597.0	1512.7	1328.8	1157.4	997.8	820.8	688.0	599.3	539.6	517.5	496.3
10°	1527.4	1415.3	1176.0	938.5	717.0	534.4	421.9	340.5	311.5	284.7	287.3
12.5°	1462.9	1326.6	1035.8	740.8	502.3	339.7	264.8	231.5	222.0	218.9	218.9
15°	1410.1	1241.8	885.3	556.9	344.4	244.0	212.0	202.9	199.5	198.6	198.6
17.5°	1353.9	1161.3	749.4	411.5	250.5	204.2	193.4	187.4	186.1	185.2	185.2
20°	1303.7	1080.4	620.5	306.3	202.5	183.9	177.0	173.1	171.8	170.9	171.3
22.5°	1256.1	1008.6	499.3	231.5	178.3	167.4	160.5	156.6	154.0	151.9	152.3
25°	1213.7	939.4	401.5	189.5	160.5	151.0	144.1	138.5	132.8	130.2	129.8
27.5°	1183.8	878.8	312.8	162.3	144.5	134.1	125.5	118.6	111.2	107.3	106.4
30°	1159.2	817.3	247.5	143.2	128.5	118.6	107.7	97.8	90.0	86.1	84.4
32.5°	1143.2	758.9	195.1	127.6	115.1	103.0	90.9	80.9	72.3	68.4	67.5
35°	1140.6	710.0	159.7	114.7	103.0	90.0	77.5	66.6	59.3	55.4	54.5
37.5°	1159.2	672.4	133.7	104.3	93.0	78.7	64.9	55.0	48.5	45.4	45.0
40°	1208.9	648.6	116.0	95.6	83.9	68.4	55.4	46.7	40.2	37.2	37.2
42.5°	1303.7	649.5	104.3	87.4	74.9	58.4	47.2	38.9	33.3	30.7	29.9
45°	1451.7	678.9	94.3	79.2	66.2	50.6	40.2	32.0	26.4	24.2	24.2
47.5°	1649.8	737.3	85.7	71.0	58.4	43.3	34.2	26.0	21.2	19.0	19.0
50°	1909.0	831.2	78.3	64.0	51.9	37.2	27.7	21.2	16.4	14.7	14.3
52.5°	2179.9	947.1	69.7	58.0	44.6	31.6	22.5	16.4	12.5	11.2	10.8
55°	2478.9	1060.5	61.4	51.9	36.3	26.4	17.7	13.0	9.1	7.8	7.8
57.5°	2780.4	1171.7	51.5	43.3	28.6	19.5	13.8	9.5	6.1	4.8	4.8
60°	3035.7	1207.6	43.7	35.0	21.6	13.8	10.0	6.1	3.5	2.2	2.2
62.5°	3070.8	1086.5	36.8	26.8	15.6	9.5	5.2	3.5	1.3	0.9	0.9
65°	2880.4	882.7	30.7	20.3	10.4	4.8	2.2	1.3	0.4	0.0	0.0
67°	2581.0	715.7	25.1	15.1	7.4	3.0	1.3	0.4	0.0	0.0	0.0
67.5°	2504.4	682.3	24.2	14.3	6.5	2.6	0.9	0.4	0.0	0.0	0.0
70°	1965.3	511.0	17.3	8.7	3.9	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	1221.5	289.0	12.5	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0
75°	461.7	101.2	8.7	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	143.7	38.5	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.5	14.7	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.9	6.1	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.9	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)