

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: P450923

Luminaire Tested: **GALN-SA1D-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450923
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-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 5897 lumens
Efficiency: N/A
Efficacy: 90.7 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

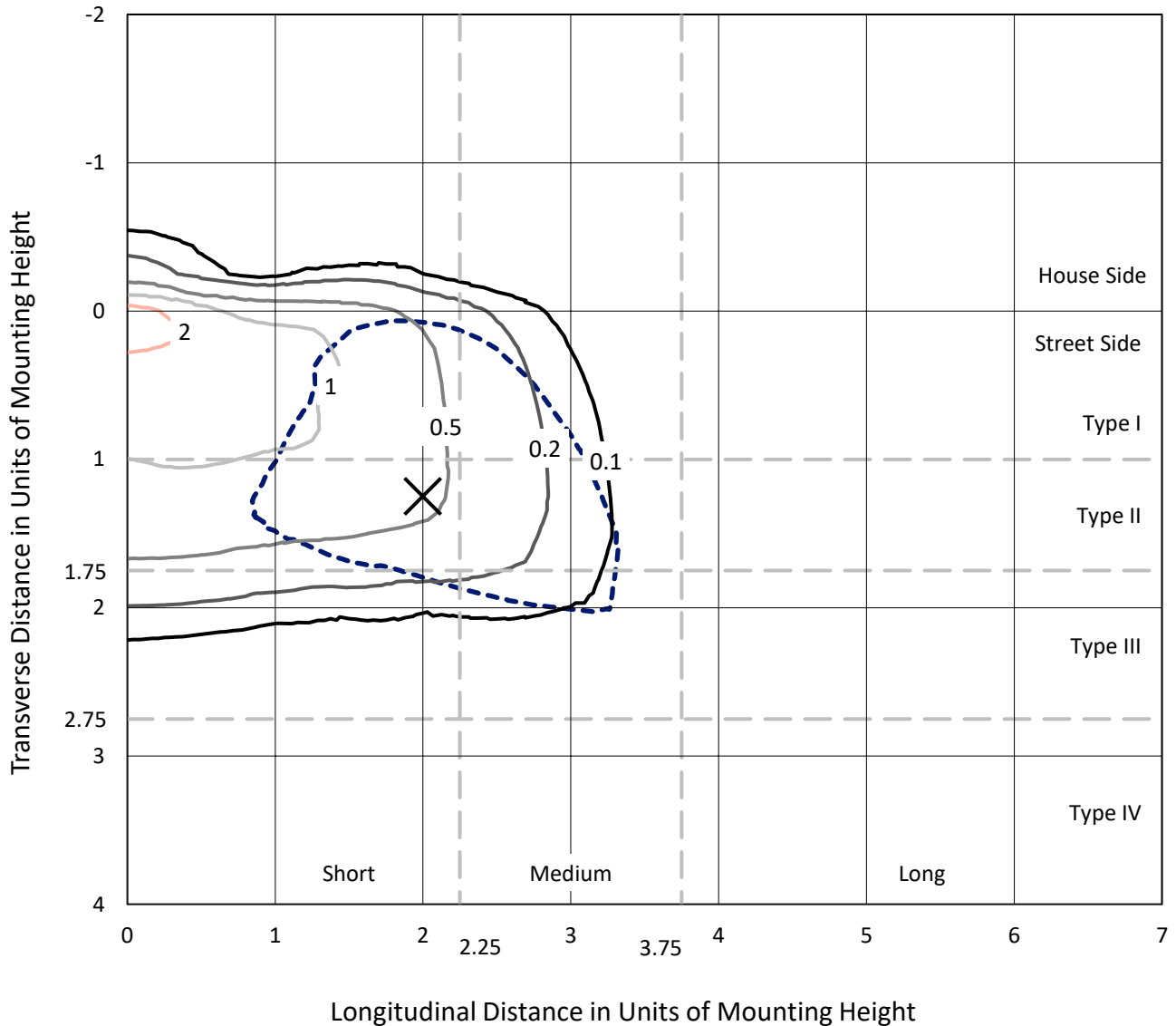
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

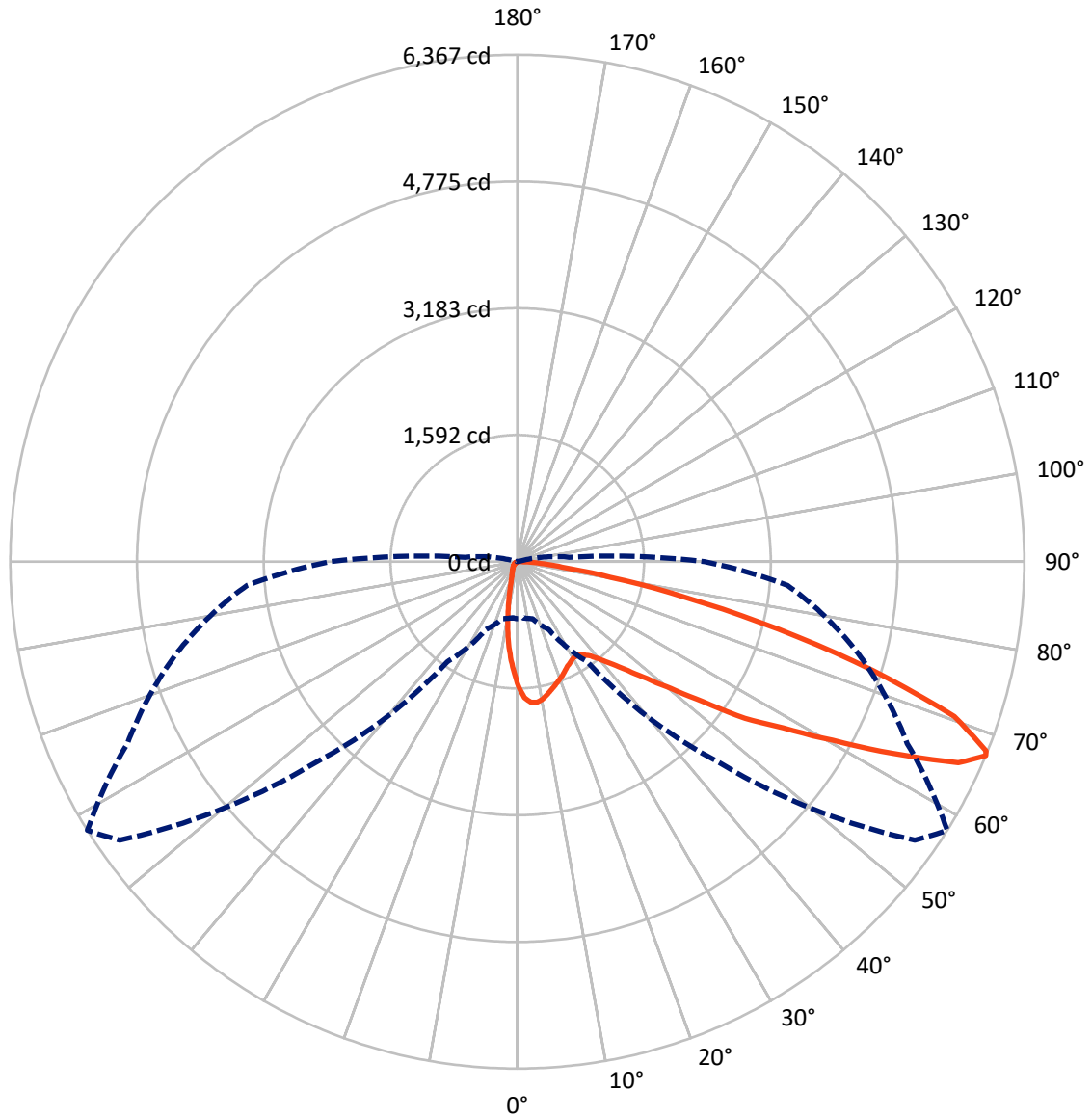
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	425.6	0.0	425.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5471.4	0.0	5471.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	5897.0	0.0	5897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	2.2
10°-20°	274.0	4.6
20°-30°	371.3	6.3
30°-40°	514.9	8.7
40°-50°	821.2	13.9
50°-60°	1419.5	24.1
60°-70°	1621.6	27.5
70°-80°	676.0	11.5
80°-90°	71.7	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°	5897.0	100.0
0°-180°	5897.0	100.0

Coefficient of Utilization



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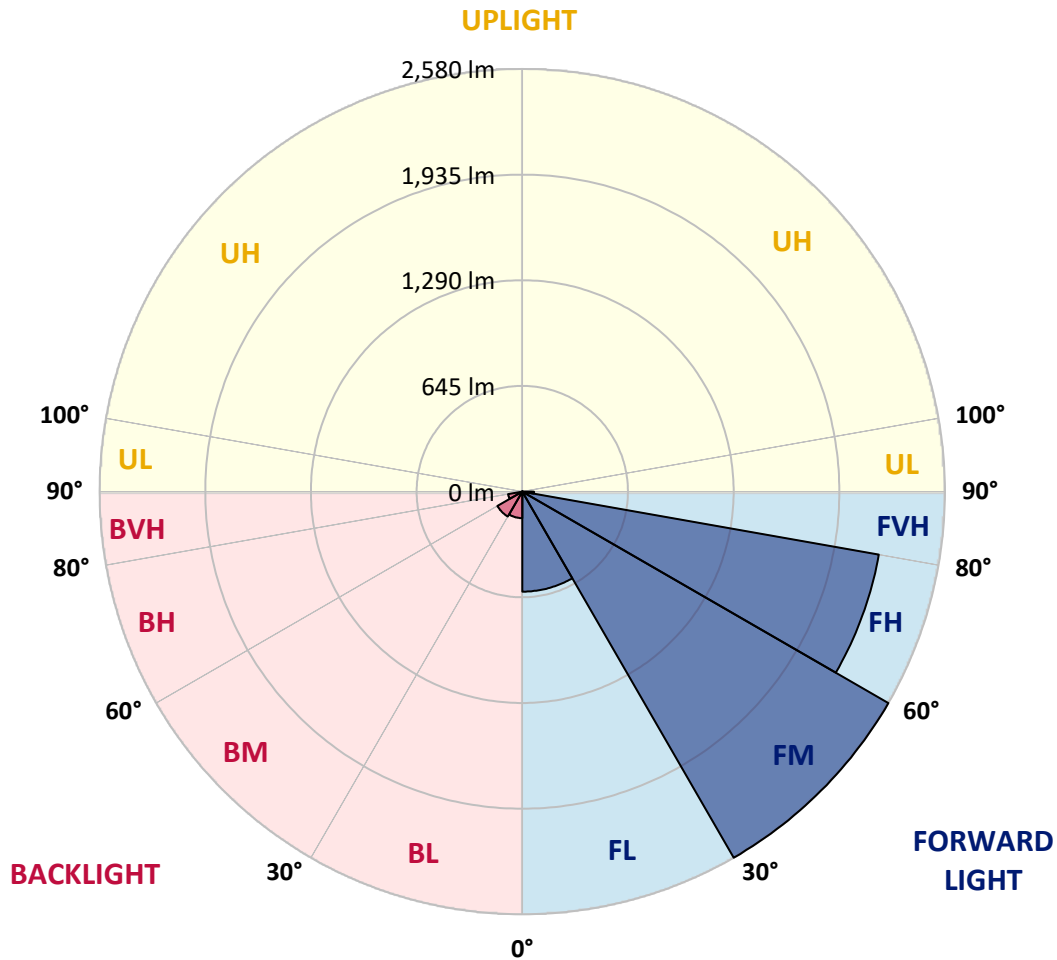
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.5	10.4			
FM (30°-60°)	2580.2	43.8			
FH (60°-80°)	2209.6	37.5			G2/5000
FVH (80°-90°)	71.2	1.2			G1/100
BL (0°-30°)	161.6	2.7	B1/500		
BM (30°-60°)	175.5	3.0	B0/220		
BH (60°-80°)	88.0	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°	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2
2.5°	1814.3	1817.0	1806.8	1798.5	1777.2	1754.4	1724.0	1707.9	1680.3	1632.6	1579.8
5°	1856.8	1860.4	1858.8	1856.8	1848.5	1826.5	1787.9	1773.7	1733.1	1655.5	1560.1
7.5°	1762.2	1775.2	1776.8	1792.2	1806.8	1808.7	1794.2	1783.5	1746.1	1655.1	1525.0
10°	1636.9	1645.6	1658.2	1675.9	1711.0	1740.2	1754.4	1752.8	1731.1	1642.8	1484.0
12.5°	1510.4	1515.2	1534.5	1564.8	1607.8	1657.4	1695.3	1702.7	1703.1	1628.3	1449.8
15°	1401.7	1399.7	1414.7	1449.8	1510.0	1572.3	1640.1	1651.9	1670.8	1614.1	1417.8
17.5°	1308.7	1318.9	1321.3	1359.9	1415.5	1496.3	1582.5	1603.4	1641.3	1601.9	1391.4
20°	1251.1	1256.7	1261.8	1283.5	1333.5	1418.6	1528.6	1557.3	1613.7	1590.8	1361.9
22.5°	1234.2	1237.7	1233.4	1240.1	1275.6	1351.2	1469.8	1508.1	1587.3	1580.6	1337.8
25°	1247.2	1250.8	1240.5	1232.6	1244.8	1296.5	1413.1	1459.6	1566.0	1578.6	1319.7
27.5°	1278.7	1285.4	1271.2	1257.1	1250.0	1266.9	1368.6	1422.6	1551.4	1588.1	1311.4
30°	1328.0	1331.9	1321.3	1303.9	1287.8	1270.8	1345.3	1396.9	1547.5	1610.1	1310.6
32.5°	1381.6	1389.9	1383.9	1372.5	1351.6	1311.4	1352.0	1397.7	1556.9	1642.1	1320.5
35°	1447.8	1457.2	1462.8	1460.4	1433.6	1383.5	1394.6	1433.2	1582.2	1700.8	1347.3
37.5°	1512.8	1521.1	1552.2	1562.8	1539.2	1491.9	1477.3	1502.9	1637.7	1777.6	1395.8
40°	1587.3	1598.3	1642.1	1682.6	1671.2	1621.6	1594.8	1616.0	1722.8	1893.5	1487.6
42.5°	1658.6	1678.3	1744.9	1816.6	1827.3	1771.7	1754.0	1761.1	1848.9	2060.2	1615.7
45°	1759.9	1778.4	1864.3	1961.6	2011.7	1968.3	1950.2	1949.0	2021.9	2294.6	1823.3
47.5°	1906.1	1922.6	2023.9	2120.0	2209.1	2215.0	2180.7	2192.6	2239.4	2568.9	2077.9
50°	2085.4	2124.4	2191.0	2291.1	2410.1	2506.2	2516.9	2501.1	2541.3	2886.5	2383.7
52.5°	2345.8	2360.8	2421.9	2504.3	2643.8	2806.9	2933.4	2911.7	2899.1	3189.1	2692.6
55°	2540.1	2560.2	2655.2	2768.3	2972.8	3188.0	3462.2	3469.7	3310.5	3480.0	2994.9
57.5°	2481.4	2512.1	2656.0	2883.3	3333.0	3726.2	3930.4	3935.5	3691.2	3762.5	3336.1
60°	2179.9	2194.5	2400.6	2704.0	3363.7	4309.5	4594.4	4553.0	4078.5	4078.5	3637.6
62.5°	1545.9	1568.8	1735.8	2182.3	3037.8	4512.0	5389.6	5304.1	4612.1	4380.8	3817.3
65°	987.9	965.8	1076.6	1377.6	2263.1	4212.9	6081.9	6087.1	5114.1	4501.8	3719.1
67°	715.6	706.9	738.9	941.8	1534.5	3541.4	6096.5	6366.5	5402.6	4425.3	3405.5
67.5°	654.5	661.2	684.5	849.6	1394.2	3222.6	6030.3	6349.9	5467.6	4379.2	3292.0
70°	496.1	484.7	509.9	600.9	835.8	2033.0	5187.4	5823.8	5386.8	3921.7	2630.4
72.5°	364.9	363.7	398.8	491.4	643.5	1082.9	3894.1	4669.6	4400.9	2986.2	1656.2
75°	246.3	257.3	313.3	410.6	583.2	702.2	2654.8	3387.7	3055.2	1695.6	677.0
77.5°	140.3	141.1	201.8	329.8	523.7	565.1	1573.1	2158.3	1617.2	563.9	201.0
80°	60.7	66.6	100.1	239.6	434.3	500.5	902.0	1186.1	654.1	119.4	65.0
82.5°	22.5	26.4	44.1	147.4	316.8	412.2	545.0	566.3	221.9	42.2	40.6
85°	0.0	0.8	16.2	69.0	165.1	184.0	364.1	335.7	98.1	20.1	26.4
87.5°	0.0	0.0	0.0	7.1	21.7	68.6	113.1	126.1	23.6	7.1	6.3
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°	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2	1563.2
2.5°	1551.4	1525.8	1461.6	1397.3	1349.7	1309.9	1250.0	1217.3	1199.9	1174.3	1175.9
5°	1512.4	1460.4	1347.3	1230.3	1135.7	1043.5	933.1	888.6	851.2	829.9	815.7
7.5°	1454.5	1377.6	1210.2	1054.1	908.7	747.5	626.6	545.8	491.4	471.3	452.0
10°	1391.0	1289.0	1071.1	854.7	653.0	486.7	384.2	310.1	283.7	259.3	261.7
12.5°	1332.3	1208.2	943.4	674.6	457.5	309.3	241.2	210.8	202.2	199.4	199.4
15°	1284.2	1131.0	806.2	507.2	313.7	222.3	193.1	184.8	181.7	180.9	180.9
17.5°	1233.0	1057.7	682.5	374.8	228.2	186.0	176.1	170.6	169.4	168.7	168.7
20°	1187.3	984.0	565.1	279.0	184.4	167.5	161.2	157.6	156.4	155.7	156.0
22.5°	1144.0	918.6	454.7	210.8	162.4	152.5	146.2	142.7	140.3	138.3	138.7
25°	1105.3	855.5	365.7	172.6	146.2	137.5	131.2	126.1	121.0	118.6	118.2
27.5°	1078.2	800.3	284.9	147.8	131.6	122.2	114.3	108.0	101.3	97.7	96.9
30°	1055.7	744.4	225.4	130.4	117.0	108.0	98.1	89.1	82.0	78.4	76.8
32.5°	1041.1	691.2	177.7	116.2	104.8	93.8	82.8	73.7	65.8	62.3	61.5
35°	1038.7	646.7	145.4	104.4	93.8	82.0	70.5	60.7	54.0	50.4	49.7
37.5°	1055.7	612.4	121.8	95.0	84.7	71.7	59.1	50.0	44.1	41.4	41.0
40°	1101.0	590.7	105.6	87.1	76.4	62.3	50.4	42.6	36.6	33.9	33.9
42.5°	1187.3	591.5	95.0	79.6	68.2	53.2	43.0	35.5	30.3	28.0	27.2
45°	1322.1	618.3	85.9	72.1	60.3	46.1	36.6	29.2	24.0	22.1	22.1
47.5°	1502.6	671.5	78.0	64.6	53.2	39.4	31.1	23.6	19.3	17.3	17.3
50°	1738.6	757.0	71.3	58.3	47.3	33.9	25.2	19.3	15.0	13.4	13.0
52.5°	1985.3	862.6	63.4	52.8	40.6	28.8	20.5	15.0	11.4	10.2	9.9
55°	2257.6	965.8	56.0	47.3	33.1	24.0	16.2	11.8	8.3	7.1	7.1
57.5°	2532.2	1067.1	46.9	39.4	26.0	17.7	12.6	8.7	5.5	4.3	4.3
60°	2764.7	1099.8	39.8	31.9	19.7	12.6	9.1	5.5	3.2	2.0	2.0
62.5°	2796.7	989.5	33.5	24.4	14.2	8.7	4.7	3.2	1.2	0.8	0.8
65°	2623.3	803.9	28.0	18.5	9.5	4.3	2.0	1.2	0.4	0.0	0.0
67°	2350.6	651.8	22.9	13.8	6.7	2.8	1.2	0.4	0.0	0.0	0.0
67.5°	2280.8	621.4	22.1	13.0	5.9	2.4	0.8	0.4	0.0	0.0	0.0
70°	1789.8	465.4	15.8	7.9	3.5	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1112.4	263.2	11.4	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0
75°	420.5	92.2	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	130.8	35.1	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.1	13.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.2	5.5	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.8	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)