

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: P458608

Luminaire Tested: **GALN-SA1D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458608
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-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 6032 lumens
Efficiency: N/A
Efficacy: 92.8 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

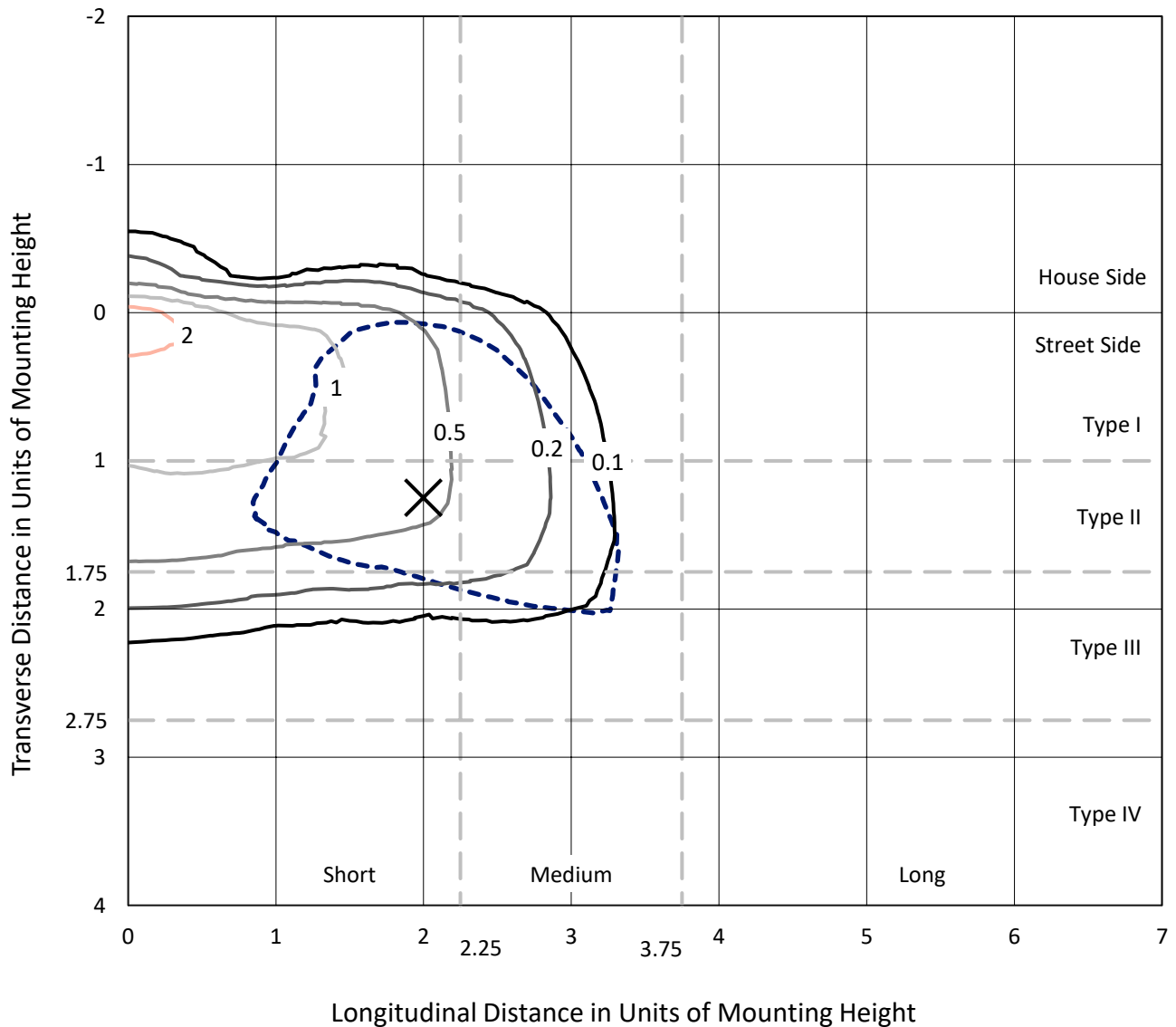
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

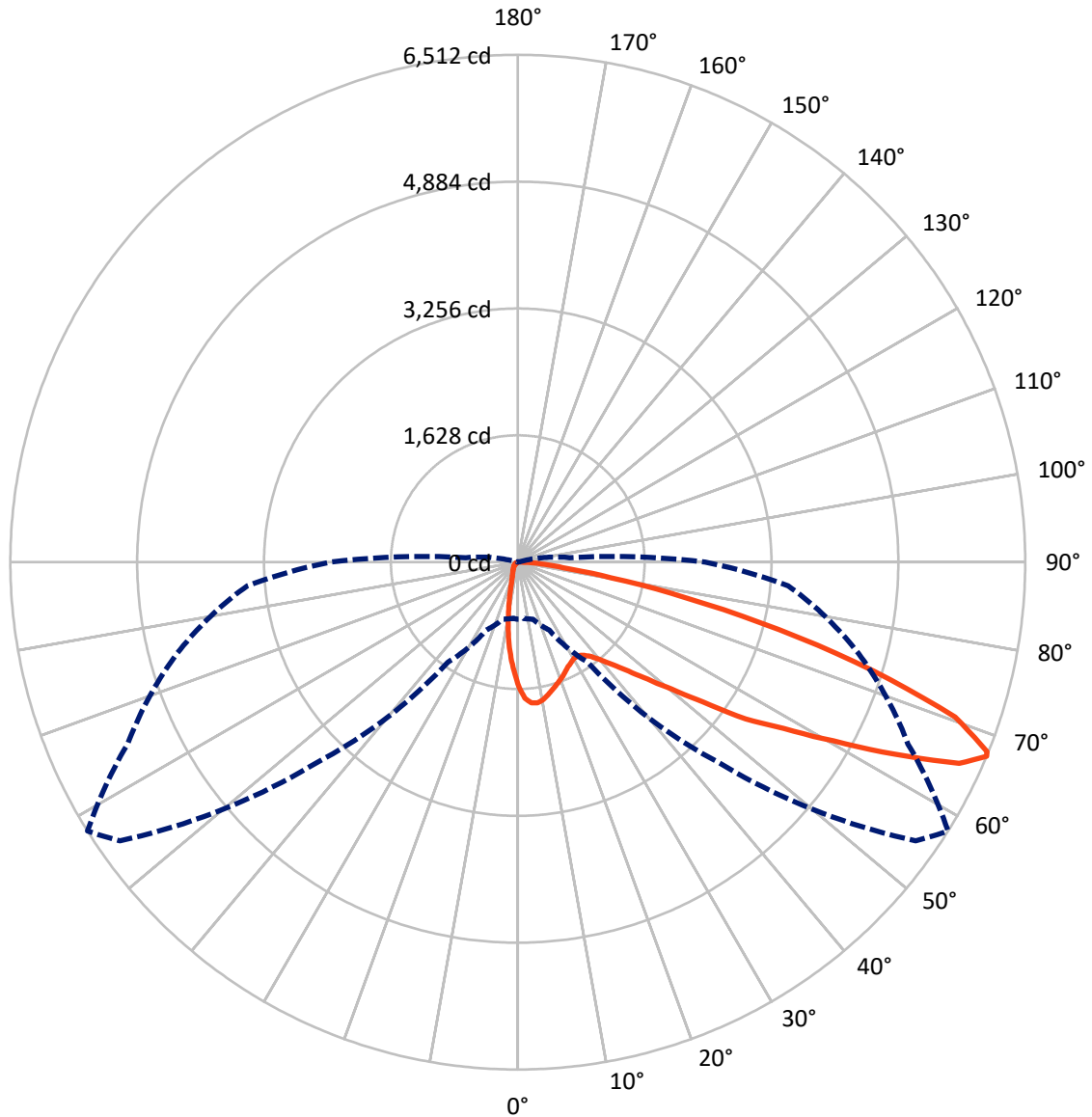
× Max cd
 - - - 1/2 Max cd



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	435.3	0.0	435.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5596.7	0.0	5596.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	6032.0	0.0	6032.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	2.2
10°-20°	280.2	4.6
20°-30°	379.7	6.3
30°-40°	526.7	8.7
40°-50°	840.0	13.9
50°-60°	1452.0	24.1
60°-70°	1658.7	27.5
70°-80°	691.5	11.5
80°-90°	73.3	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°	6032.0	100.0
0°-180°	6032.0	100.0



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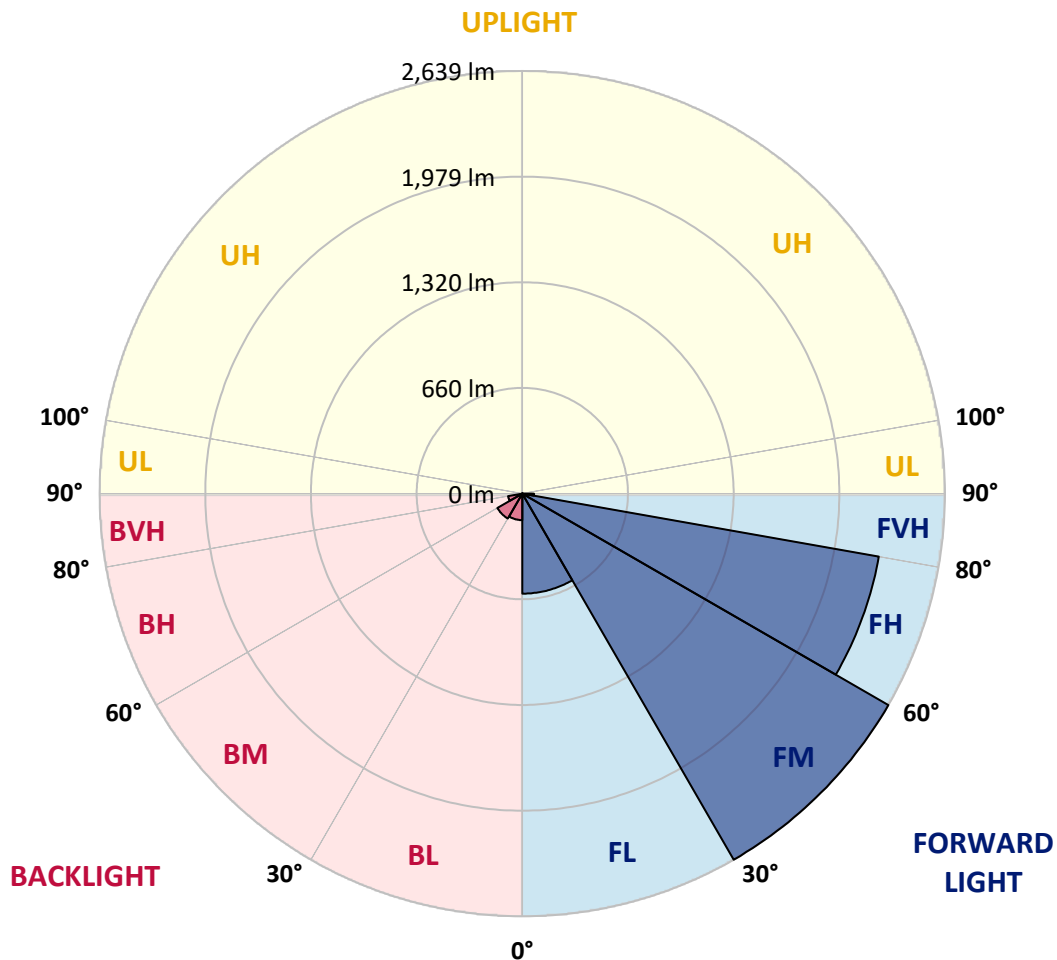
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.5	10.4			
FM (30°-60°)	2639.3	43.8			
FH (60°-80°)	2260.2	37.5			G2/5000
FVH (80°-90°)	72.8	1.2			G1/100
BL (0°-30°)	165.3	2.7	B1/500		
BM (30°-60°)	179.5	3.0	B0/220		
BH (60°-80°)	90.0	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°	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0
2.5°	1855.8	1858.6	1848.1	1839.7	1817.9	1794.5	1763.5	1747.0	1718.7	1670.0	1616.0
5°	1899.3	1903.0	1901.3	1899.3	1890.9	1868.3	1828.8	1814.3	1772.8	1693.3	1595.8
7.5°	1802.6	1815.9	1817.5	1833.2	1848.1	1850.1	1835.2	1824.4	1786.1	1692.9	1559.9
10°	1674.4	1683.3	1696.2	1714.3	1750.2	1780.0	1794.5	1792.9	1770.7	1680.5	1518.0
12.5°	1545.0	1549.9	1569.6	1600.6	1644.6	1695.4	1734.1	1741.7	1742.1	1665.5	1482.9
15°	1433.8	1431.7	1447.1	1482.9	1544.6	1608.3	1677.6	1689.7	1709.1	1651.0	1450.3
17.5°	1338.6	1349.1	1351.5	1391.0	1447.9	1530.5	1618.8	1640.1	1678.8	1638.5	1423.3
20°	1279.8	1285.4	1290.7	1312.8	1364.0	1451.1	1563.6	1593.0	1650.6	1627.2	1393.1
22.5°	1262.5	1266.1	1261.6	1268.5	1304.8	1382.2	1503.5	1542.6	1623.6	1616.8	1368.5
25°	1275.8	1279.4	1268.9	1260.8	1273.3	1326.1	1445.5	1493.0	1601.8	1614.7	1349.9
27.5°	1308.0	1314.9	1300.3	1285.8	1278.6	1295.9	1399.9	1455.1	1586.9	1624.4	1341.5
30°	1358.4	1362.4	1351.5	1333.8	1317.3	1299.9	1376.1	1428.9	1582.9	1647.0	1340.7
32.5°	1413.2	1421.7	1415.6	1403.9	1382.6	1341.5	1383.0	1429.7	1592.6	1679.6	1350.7
35°	1480.9	1490.6	1496.2	1493.8	1466.4	1415.2	1426.5	1466.0	1618.4	1739.7	1378.1
37.5°	1547.4	1555.9	1587.7	1598.6	1574.4	1526.1	1511.2	1537.4	1675.2	1818.3	1427.7
40°	1623.6	1634.9	1679.6	1721.2	1709.5	1658.7	1631.3	1653.0	1762.3	1936.8	1521.6
42.5°	1696.6	1716.7	1784.8	1858.2	1869.1	1812.3	1794.1	1801.4	1891.3	2107.3	1652.6
45°	1800.2	1819.1	1907.0	2006.5	2057.7	2013.4	1994.9	1993.6	2068.2	2347.1	1865.1
47.5°	1949.7	1966.6	2070.2	2168.6	2259.7	2265.7	2230.7	2242.8	2290.7	2627.7	2125.5
50°	2133.1	2173.0	2241.1	2343.5	2465.3	2563.6	2574.5	2558.4	2599.5	2952.6	2438.2
52.5°	2399.5	2414.9	2477.3	2561.6	2704.3	2871.2	3000.5	2978.4	2965.5	3262.1	2754.3
55°	2598.3	2618.8	2716.0	2831.7	3040.9	3260.9	3541.5	3549.1	3386.3	3559.6	3063.4
57.5°	2538.2	2569.7	2716.8	2949.4	3409.3	3811.5	4020.3	4025.6	3775.7	3848.6	3412.5
60°	2229.9	2244.8	2455.6	2766.0	3440.7	4408.1	4699.5	4657.2	4171.9	4171.9	3720.9
62.5°	1581.3	1604.7	1775.6	2232.3	3107.4	4615.3	5513.0	5425.5	4717.7	4481.1	3904.7
65°	1010.5	988.0	1101.2	1409.2	2314.9	4309.4	6221.2	6226.4	5231.2	4604.8	3804.3
67°	732.0	723.1	755.8	963.4	1569.6	3622.5	6236.1	6512.2	5526.3	4526.6	3483.4
67.5°	669.5	676.4	700.2	869.0	1426.1	3296.4	6168.4	6495.3	5592.8	4479.5	3367.4
70°	507.5	495.8	521.6	614.7	854.9	2079.5	5306.2	5957.2	5510.1	4011.5	2690.6
72.5°	373.3	372.0	407.9	502.6	658.2	1107.7	3983.3	4776.5	4501.6	3054.6	1694.2
75°	251.9	263.2	320.5	420.0	596.6	718.3	2715.6	3465.3	3125.1	1734.5	692.5
77.5°	143.5	144.3	206.4	337.4	535.7	578.0	1609.1	2207.7	1654.3	576.8	205.6
80°	62.1	68.1	102.4	245.1	444.2	511.9	922.7	1213.3	669.1	122.1	66.5
82.5°	23.0	27.0	45.1	150.8	324.1	421.6	557.5	579.2	226.9	43.1	41.5
85°	0.0	0.8	16.5	70.5	168.9	188.2	372.4	343.4	100.4	20.6	27.0
87.5°	0.0	0.0	0.0	7.3	22.2	70.1	115.7	129.0	24.2	7.3	6.4
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°	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0	1599.0
2.5°	1586.9	1560.7	1495.0	1429.3	1380.6	1339.8	1278.6	1245.1	1227.4	1201.2	1202.8
5°	1547.0	1493.8	1378.1	1258.4	1161.7	1067.4	954.5	909.0	870.7	848.9	834.4
7.5°	1487.8	1409.2	1237.9	1078.2	929.5	764.6	640.9	558.3	502.6	482.1	462.3
10°	1422.9	1318.5	1095.6	874.3	667.9	497.8	393.0	317.2	290.2	265.2	267.6
12.5°	1362.8	1235.9	965.0	690.1	468.0	316.4	246.7	215.6	206.8	204.0	204.0
15°	1313.6	1156.8	824.7	518.8	320.9	227.3	197.5	189.0	185.8	185.0	185.0
17.5°	1261.2	1081.9	698.1	383.3	233.4	190.3	180.2	174.5	173.3	172.5	172.5
20°	1214.5	1006.5	578.0	285.4	188.6	171.3	164.9	161.2	160.0	159.2	159.6
22.5°	1170.1	939.6	465.2	215.6	166.1	156.0	149.5	145.9	143.5	141.5	141.9
25°	1130.6	875.1	374.1	176.6	149.5	140.7	134.2	129.0	123.7	121.3	120.9
27.5°	1102.8	818.7	291.4	151.2	134.6	125.0	116.9	110.4	103.6	100.0	99.2
30°	1079.9	761.4	230.6	133.4	119.7	110.4	100.4	91.1	83.8	80.2	78.6
32.5°	1064.9	707.0	181.8	118.9	107.2	95.9	84.6	75.4	67.3	63.7	62.9
35°	1062.5	661.5	148.7	106.8	95.9	83.8	72.2	62.1	55.2	51.6	50.8
37.5°	1079.9	626.4	124.6	97.1	86.7	73.4	60.5	51.2	45.1	42.3	41.9
40°	1126.2	604.2	108.0	89.1	78.2	63.7	51.6	43.5	37.5	34.7	34.7
42.5°	1214.5	605.0	97.1	81.4	69.7	54.4	43.9	36.3	31.0	28.6	27.8
45°	1352.3	632.4	87.9	73.8	61.7	47.2	37.5	29.8	24.6	22.6	22.6
47.5°	1537.0	686.9	79.8	66.1	54.4	40.3	31.8	24.2	19.8	17.7	17.7
50°	1778.4	774.3	73.0	59.7	48.4	34.7	25.8	19.8	15.3	13.7	13.3
52.5°	2030.7	882.3	64.9	54.0	41.5	29.4	21.0	15.3	11.7	10.5	10.1
55°	2309.3	988.0	57.2	48.4	33.9	24.6	16.5	12.1	8.5	7.3	7.3
57.5°	2590.2	1091.5	48.0	40.3	26.6	18.1	12.9	8.9	5.6	4.4	4.4
60°	2828.0	1125.0	40.7	32.6	20.2	12.9	9.3	5.6	3.2	2.0	2.0
62.5°	2860.7	1012.1	34.3	25.0	14.5	8.9	4.8	3.2	1.2	0.8	0.8
65°	2683.3	822.3	28.6	18.9	9.7	4.4	2.0	1.2	0.4	0.0	0.0
67°	2404.4	666.7	23.4	14.1	6.9	2.8	1.2	0.4	0.0	0.0	0.0
67.5°	2333.0	635.7	22.6	13.3	6.0	2.4	0.8	0.4	0.0	0.0	0.0
70°	1830.8	476.0	16.1	8.1	3.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1137.9	269.3	11.7	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0
75°	430.1	94.3	8.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	133.8	35.9	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.1	13.7	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.8	5.6	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.3	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)