

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: P452560

Luminaire Tested: **GALN-SA3C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14033 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

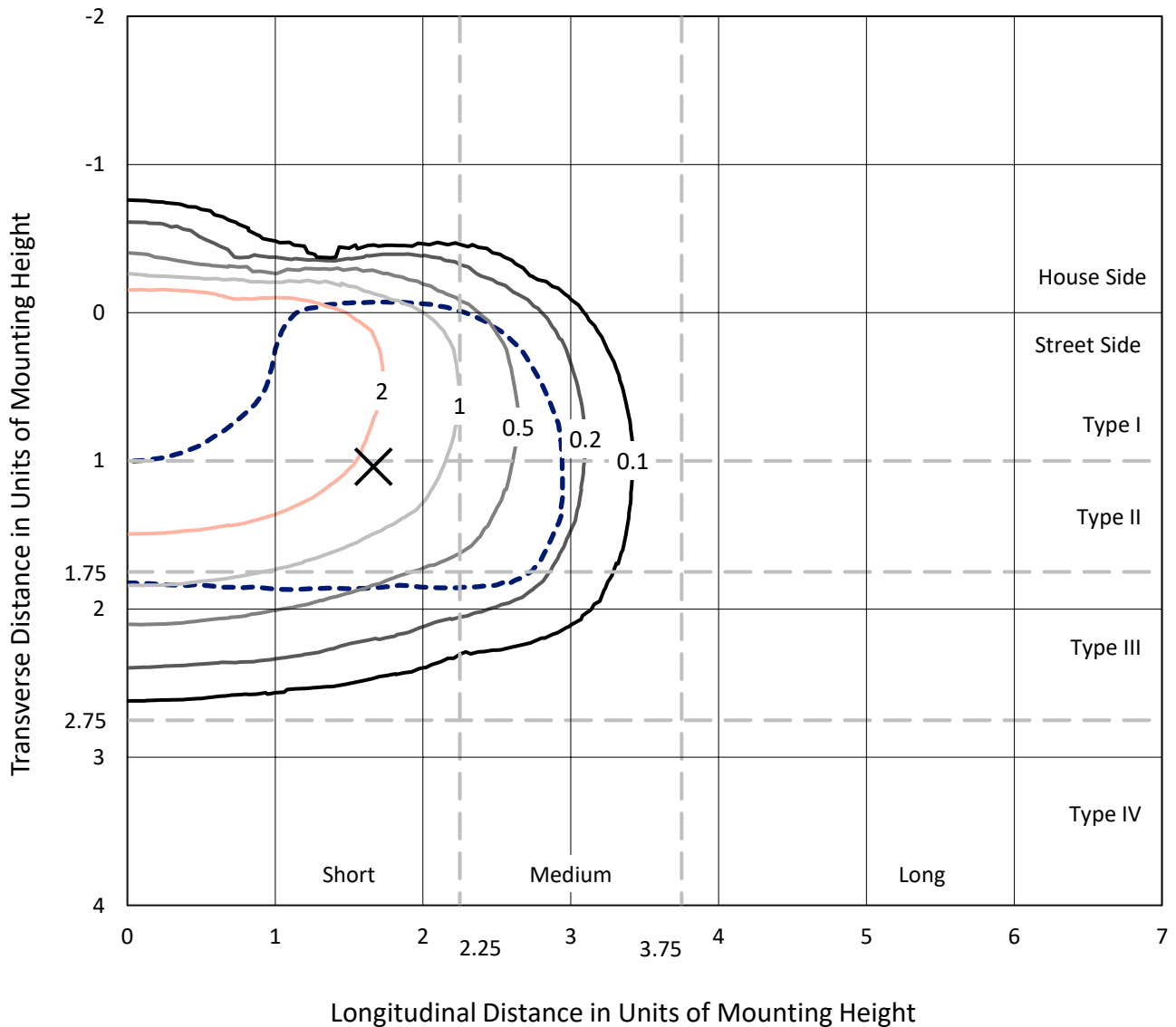
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452560
 CATALOG NUMBER: GALN-SA3C-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

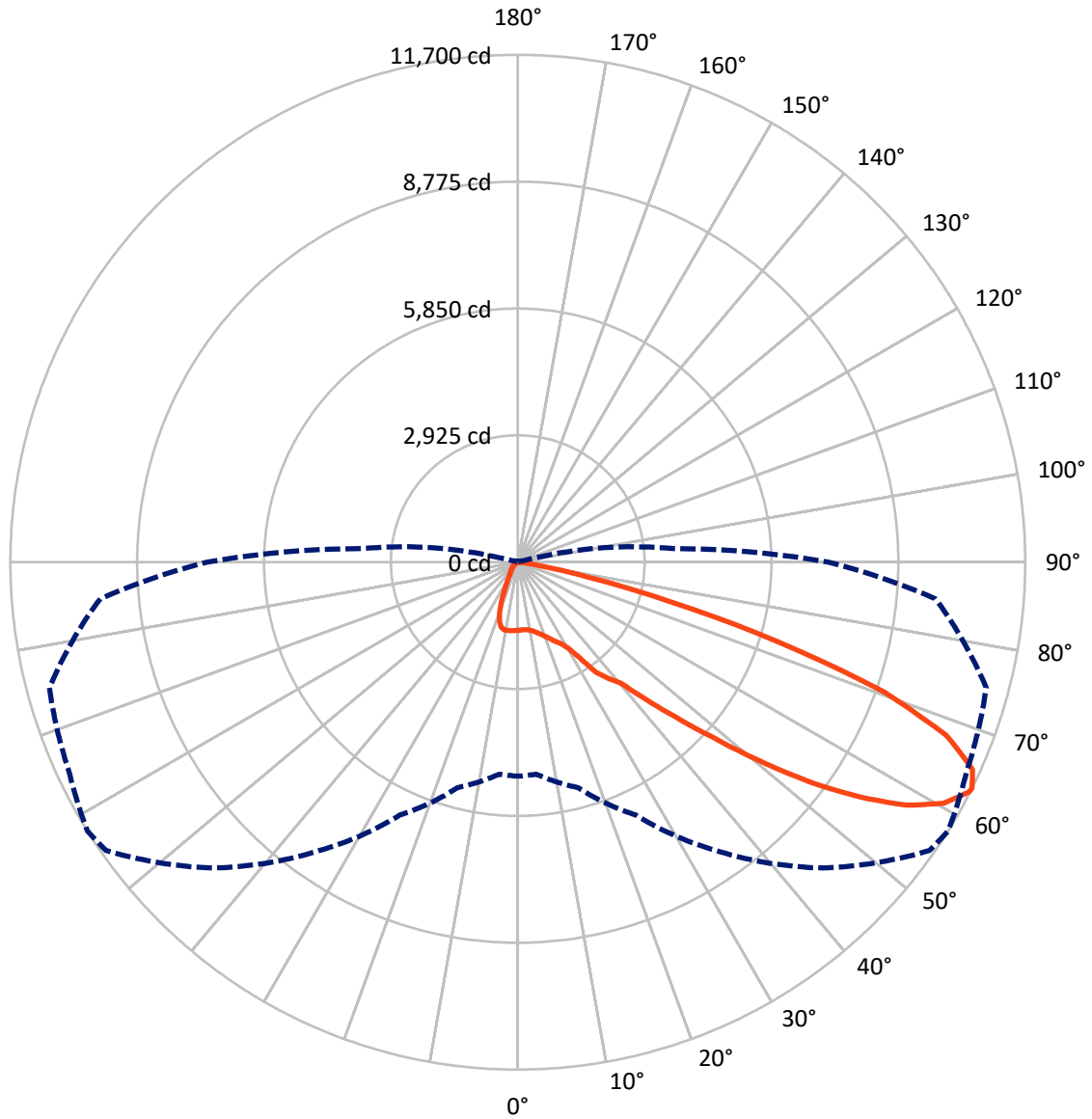
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

REPORT NUMBER: P452560
CATALOG NUMBER: GALN-SA3C-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P452560

CATALOG NUMBER: GALN-SA3C-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1453.0	0.0	1453.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12580.0	0.0	12580.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	14033.0	0.0	14033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.0
10°-20°	400.6	2.9
20°-30°	695.2	5.0
30°-40°	1277.5	9.1
40°-50°	2404.9	17.1
50°-60°	4113.4	29.3
60°-70°	3938.6	28.1
70°-80°	1004.4	7.2
80°-90°	51.4	0.4
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°	14033.0	100.0
0°-180°	14033.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452560

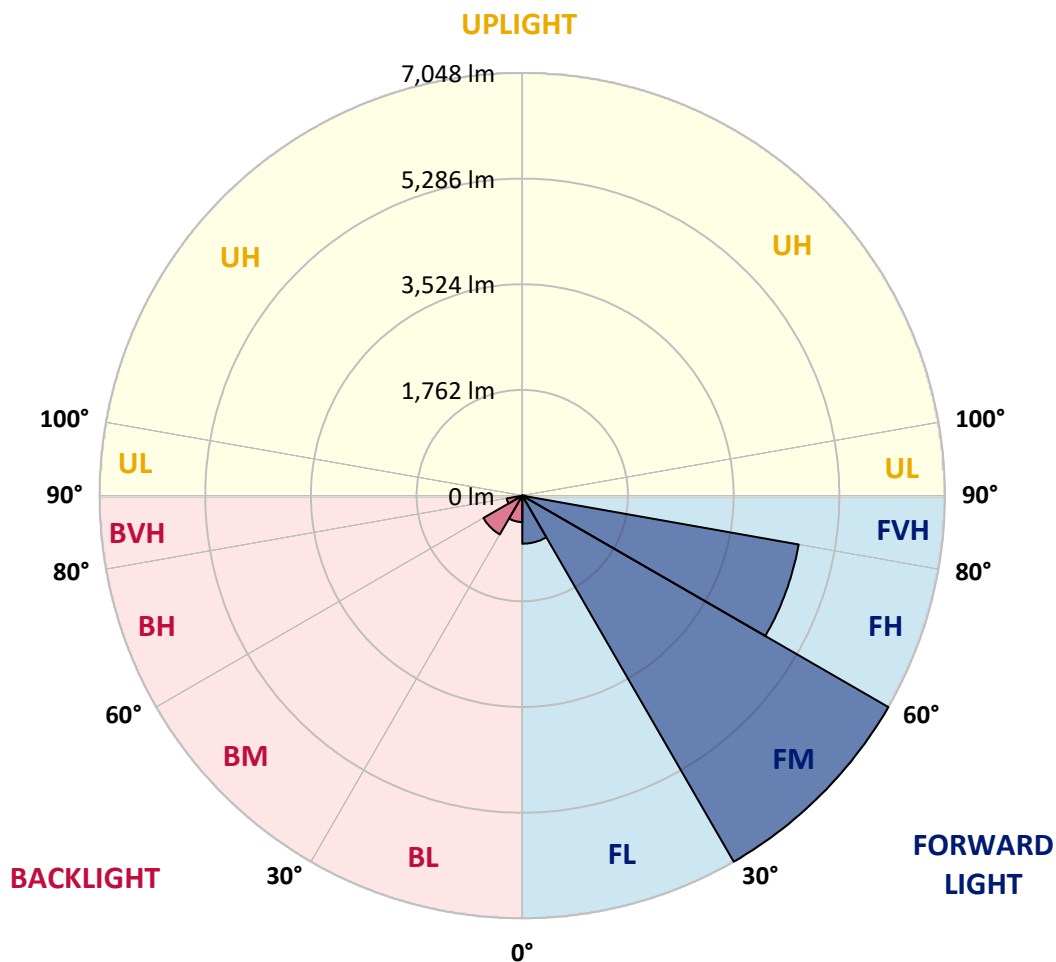
CATALOG NUMBER: GALN-SA3C-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.2	5.7			
FM (30°-60°)	7048.5	50.2			
FH (60°-80°)	4679.9	33.3			G2/5000
FVH (80°-90°)	49.4	0.4			G1/100
BL (0°-30°)	440.7	3.1	B1/500		
BM (30°-60°)	747.4	5.3	B1/1000		
BH (60°-80°)	263.0	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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





REPORT NUMBER: P452560

CATALOG NUMBER: GALN-SA3C-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0
2.5°	1532.0	1537.2	1542.5	1544.6	1552.0	1559.4	1564.7	1563.7	1572.1	1576.3	1576.3
5°	1470.7	1470.7	1484.4	1497.1	1518.2	1539.4	1559.4	1563.7	1579.5	1594.3	1599.6
7.5°	1418.9	1422.1	1432.6	1455.9	1484.4	1521.4	1561.5	1571.0	1598.5	1631.3	1645.0
10°	1394.6	1396.7	1410.5	1434.8	1470.7	1521.4	1577.4	1595.3	1637.6	1689.4	1708.4
12.5°	1389.3	1392.5	1406.2	1433.7	1474.9	1536.2	1612.3	1631.3	1692.5	1759.1	1787.6
15°	1398.8	1400.9	1414.7	1444.3	1489.7	1562.6	1658.7	1685.2	1758.1	1835.2	1872.2
17.5°	1432.6	1430.5	1440.0	1464.3	1515.1	1595.3	1714.7	1746.4	1832.0	1937.7	1962.0
20°	1576.3	1562.6	1554.1	1533.0	1553.1	1641.8	1782.4	1828.8	1934.5	2042.3	2059.2
22.5°	1885.9	1855.3	1795.0	1712.6	1649.2	1705.2	1863.7	1917.6	2053.9	2159.5	2159.5
25°	2280.0	2240.9	2180.7	2001.1	1845.7	1809.8	1955.6	2023.2	2183.8	2290.5	2255.7
27.5°	2773.4	2742.7	2625.5	2416.3	2178.5	1992.6	2062.3	2124.7	2299.0	2427.9	2355.0
30°	3174.8	3160.1	3063.9	2876.9	2614.9	2343.4	2261.0	2302.2	2452.2	2601.2	2526.1
32.5°	3514.0	3514.0	3415.7	3241.4	2996.3	2755.4	2598.0	2627.6	2771.3	2943.5	2804.0
35°	3886.9	3874.3	3795.0	3629.2	3354.5	3142.1	3077.6	3117.8	3247.7	3375.6	3032.2
37.5°	4278.9	4274.7	4192.3	4031.7	3807.7	3540.4	3389.3	3399.9	3466.4	3544.6	3299.5
40°	4704.7	4711.0	4603.3	4504.0	4292.7	4019.0	3729.5	3663.0	3725.3	3946.1	3792.9
42.5°	5207.6	5192.8	5146.3	5011.1	4841.0	4677.2	4329.6	4305.3	4360.3	4596.9	4431.1
45°	5791.9	5813.0	5732.7	5657.7	5543.6	5407.3	5116.7	5074.5	5134.7	5502.4	5266.8
47.5°	6377.2	6357.1	6408.9	6395.1	6456.4	6355.0	6098.2	6011.6	6156.4	6505.0	6158.5
50°	6823.0	6845.2	6953.0	7110.4	7373.5	7430.5	7184.4	7154.8	7219.2	7443.2	6956.1
52.5°	7112.5	7186.5	7355.5	7760.2	8234.5	8603.3	8416.3	8400.4	8374.0	8434.2	7719.0
55°	7301.6	7376.6	7597.5	8193.3	9010.0	9609.1	9618.6	9551.0	9376.6	9333.3	8432.1
57.5°	7185.4	7200.2	7515.0	8311.7	9440.0	10326.4	10637.1	10569.4	10247.2	10083.4	9061.8
60°	6458.5	6489.2	6927.6	7863.7	9253.0	10561.0	11312.2	11281.5	10928.7	10743.8	9552.0
62.5°	5170.6	5259.4	5710.5	6754.3	8383.5	10165.9	11585.8	11672.5	11397.8	11143.1	9706.3
63°	4934.0	4905.4	5381.9	6431.1	8153.2	9970.4	11590.0	11699.9	11418.9	11181.2	9664.0
65°	3652.4	3738.0	4047.5	5071.3	6785.0	9060.7	11329.1	11523.5	11340.7	11013.2	9196.0
67.5°	2050.7	2046.5	2388.8	3318.5	4749.1	7107.2	10244.0	10655.0	10617.0	9882.7	7622.8
70°	1003.7	1019.5	1160.1	1720.0	2754.4	4903.3	8512.4	8956.1	8969.9	7762.3	5271.0
72.5°	454.3	461.7	562.1	837.8	1415.7	2610.7	5865.8	6289.5	6211.3	4946.6	2910.7
75°	239.8	255.7	309.6	421.6	682.5	1076.6	3190.7	3600.6	3436.9	2259.9	1071.3
77.5°	177.5	182.8	210.2	268.4	365.6	419.4	1376.6	1637.6	1534.1	817.7	355.0
80°	130.0	134.2	156.4	190.2	230.3	213.4	518.8	594.8	533.5	277.9	108.8
82.5°	79.2	80.3	114.1	141.6	144.7	119.4	171.2	183.8	192.3	156.4	59.2
85°	28.5	35.9	77.1	102.5	85.6	60.2	71.8	79.2	86.6	99.3	34.9
87.5°	3.2	4.2	37.0	49.7	24.3	22.2	26.4	29.6	31.7	37.0	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452560
 CATALOG NUMBER: GALN-SA3C-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0	1571.0
2.5°	1580.6	1584.8	1581.6	1576.3	1575.3	1572.1	1565.8	1565.8	1565.8	1567.9	1565.8
5°	1603.8	1607.0	1599.6	1589.0	1577.4	1562.6	1546.7	1537.2	1536.2	1534.1	1528.8
7.5°	1648.2	1652.4	1635.5	1610.1	1578.4	1542.5	1508.7	1477.0	1462.2	1450.6	1450.6
10°	1712.6	1716.8	1683.0	1637.6	1574.2	1501.3	1421.0	1348.1	1291.1	1264.7	1258.3
12.5°	1789.7	1791.9	1735.9	1656.6	1552.0	1411.5	1240.4	1080.8	969.9	919.2	913.9
15°	1874.3	1859.5	1785.5	1664.0	1488.6	1226.6	930.8	735.3	620.2	586.4	599.0
17.5°	1959.8	1932.4	1823.6	1652.4	1346.0	930.8	625.5	501.8	465.9	456.4	456.4
20°	2040.1	2002.1	1851.0	1601.7	1098.8	641.3	463.8	434.2	427.9	421.6	422.6
22.5°	2120.4	2062.3	1875.3	1488.6	818.8	458.5	415.2	405.7	397.3	388.8	387.7
25°	2198.6	2118.3	1884.8	1279.4	557.8	394.1	379.3	366.6	349.7	340.2	338.1
27.5°	2280.0	2185.9	1878.5	1015.3	406.8	352.9	338.1	320.1	300.1	283.1	283.1
30°	2436.3	2314.8	1856.3	730.1	342.3	310.6	291.6	263.1	240.9	224.0	222.9
32.5°	2649.8	2482.8	1780.2	513.5	304.3	273.6	245.1	213.4	190.2	177.5	177.5
35°	2839.9	2651.9	1637.6	378.2	273.6	237.7	202.9	172.2	154.3	145.8	142.6
37.5°	3129.4	2899.1	1441.1	307.4	244.1	206.0	170.1	141.6	126.8	120.4	120.4
40°	3563.6	3201.3	1200.2	269.4	215.5	175.4	141.6	119.4	107.8	100.4	100.4
42.5°	4102.5	3571.0	956.2	241.9	189.1	151.1	118.3	101.4	90.9	85.6	84.5
45°	4780.8	3960.9	736.4	216.6	168.0	128.9	100.4	85.6	75.0	71.8	72.9
47.5°	5488.6	4304.3	570.5	194.4	145.8	108.8	85.6	74.0	66.6	62.3	62.3
50°	6093.0	4540.9	433.2	169.0	128.9	91.9	75.0	66.6	60.2	58.1	57.1
52.5°	6598.0	4609.6	331.7	146.9	113.0	79.2	66.6	60.2	54.9	51.8	51.8
55°	7028.0	4549.4	259.9	123.6	95.1	68.7	59.2	53.9	47.5	44.4	43.3
57.5°	7279.4	4356.0	198.6	102.5	77.1	57.1	51.8	45.4	38.0	32.8	32.8
60°	7406.2	4075.0	152.1	84.5	59.2	45.4	42.3	33.8	26.4	22.2	21.1
62.5°	7254.1	3702.1	115.2	66.6	44.4	33.8	28.5	24.3	16.9	12.7	12.7
63°	7160.1	3594.3	110.9	63.4	41.2	31.7	26.4	22.2	14.8	11.6	10.6
65°	6527.2	3124.1	90.9	50.7	32.8	22.2	18.0	15.8	10.6	5.3	4.2
67.5°	5183.3	2389.9	71.8	38.0	23.2	15.8	10.6	9.5	3.2	0.0	0.0
70°	3504.5	1543.6	56.0	27.5	15.8	9.5	5.3	4.2	1.1	0.0	0.0
72.5°	1827.8	791.3	43.3	20.1	9.5	6.3	3.2	1.1	0.0	0.0	0.0
75°	646.6	269.4	31.7	12.7	6.3	3.2	1.1	0.0	0.0	0.0	0.0
77.5°	195.5	100.4	20.1	9.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	68.7	37.0	11.6	6.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	33.8	18.0	7.4	5.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	19.0	11.6	6.3	5.3	3.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	8.5	6.3	5.3	4.2	2.1	1.1	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)