

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: P529593

Luminaire Tested: **GALN-SA4D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18433 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

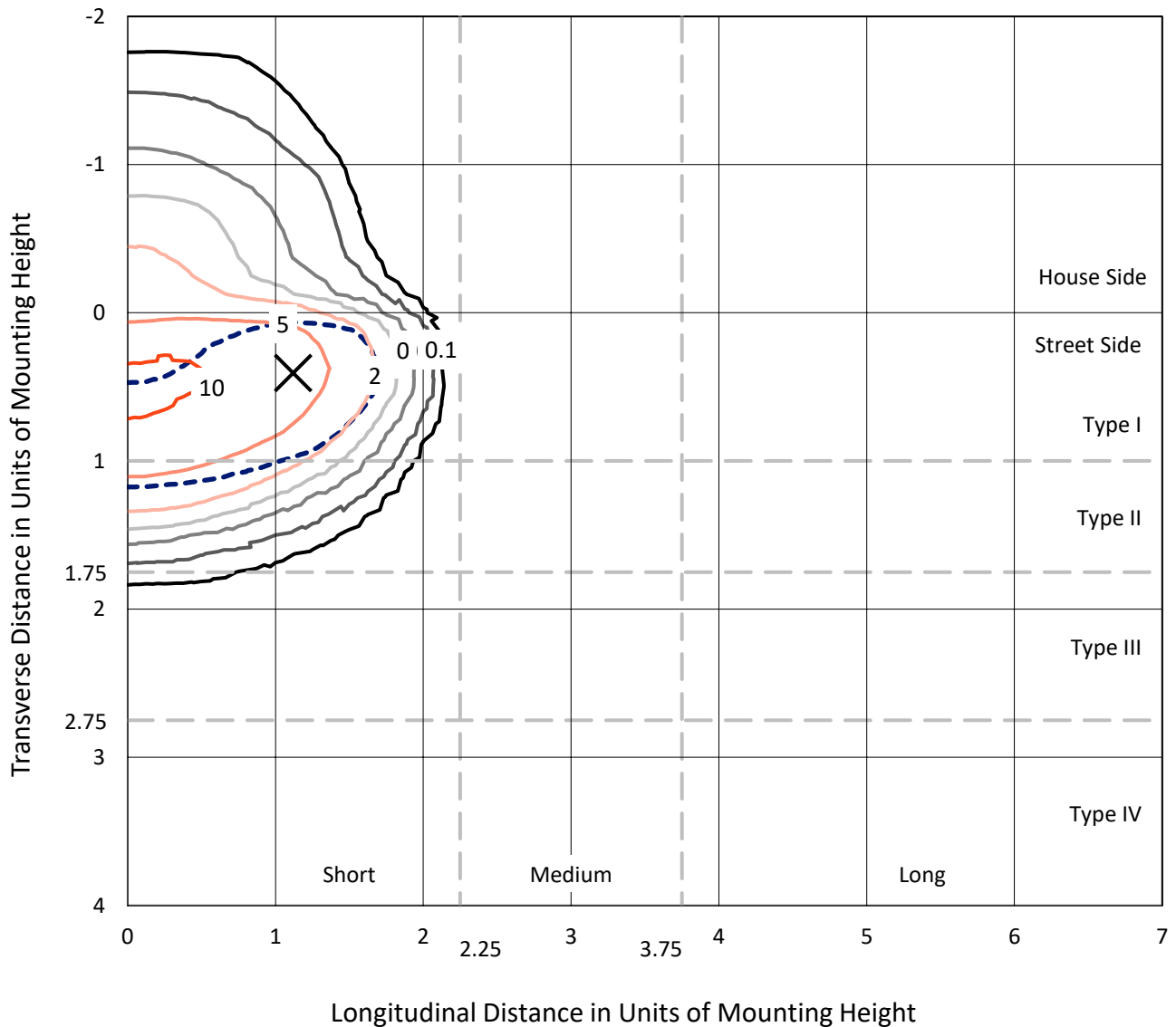
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529593
 CATALOG NUMBER: GALN-SA4D-730-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

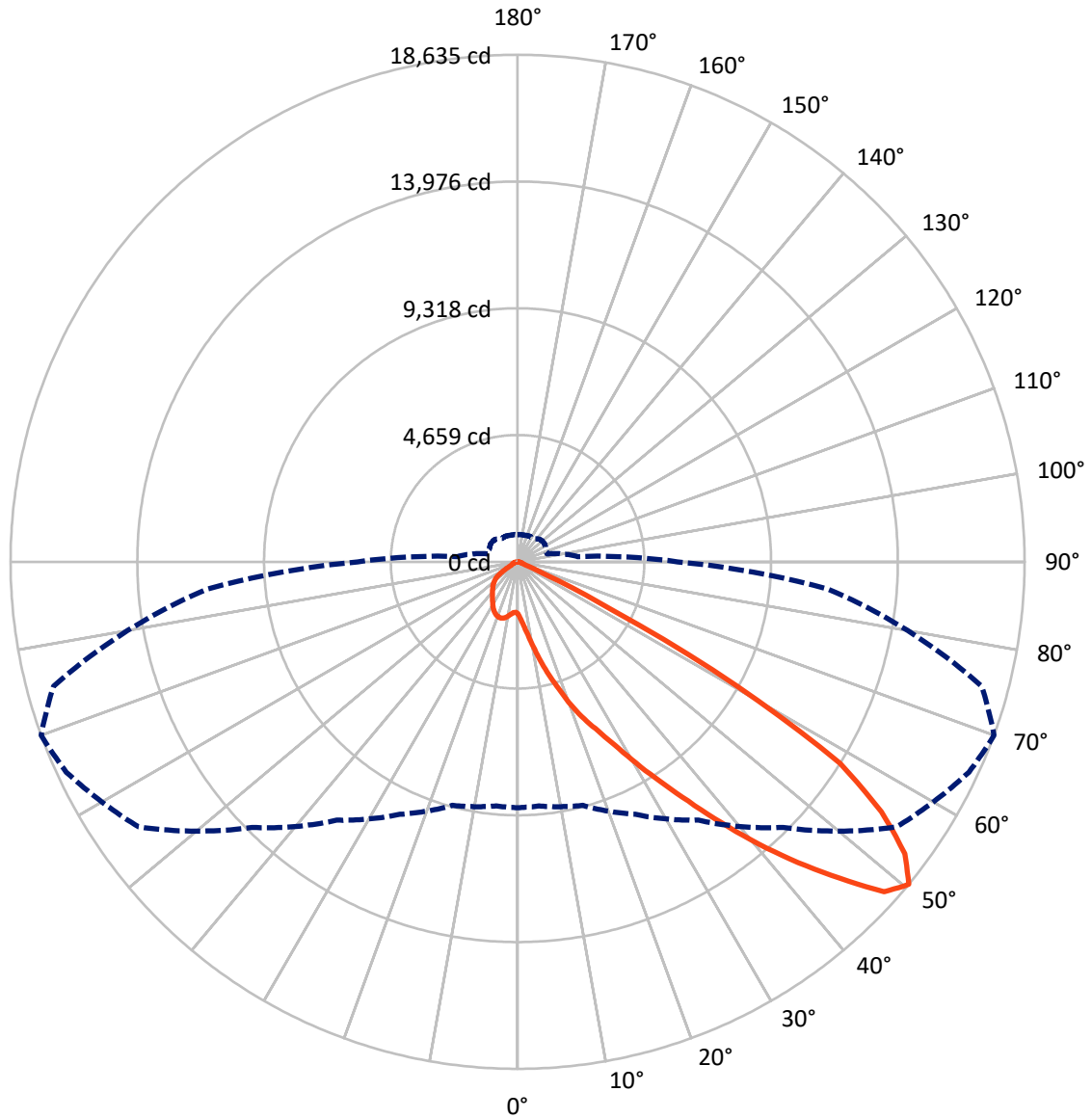
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type I - Short - N/A

REPORT NUMBER: P529593
CATALOG NUMBER: GALN-SA4D-730-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P529593
 CATALOG NUMBER: GALN-SA4D-730-U-T2R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2574.3	0.0	2574.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15858.7	0.0	15858.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	18433.0	0.0	18433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.3
10°-20°	1074.0	5.8
20°-30°	2253.0	12.2
30°-40°	3883.4	21.1
40°-50°	5675.6	30.8
50°-60°	4420.3	24.0
60°-70°	748.9	4.1
70°-80°	102.9	0.6
80°-90°	26.7	0.1
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°	18433.0	100.0
0°-180°	18433.0	100.0

Coefficient of Utilization

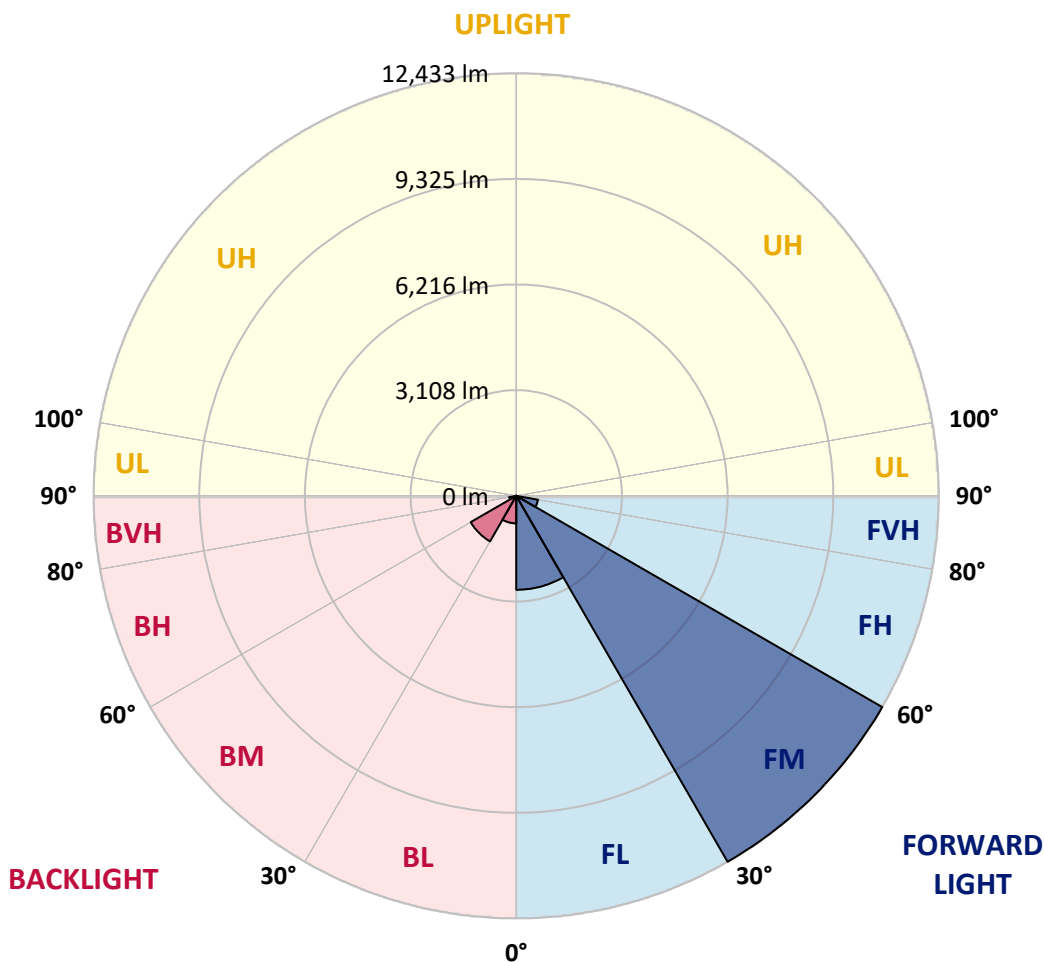


REPORT NUMBER: P529593
 CATALOG NUMBER: GALN-SA4D-730-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2765.2	15.0			
FM (30°-60°)	12432.7	67.4			
FH (60°-80°)	648.5	3.5			G0/660
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	810.1	4.4	B2/1000		
BM (30°-60°)	1546.5	8.4	B2/2500		
BH (60°-80°)	203.4	1.1	B1/500		G1/500
BVH (80°-90°)	14.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





REPORT NUMBER: P529593

CATALOG NUMBER: GALN-SA4D-730-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3
2.5°	2500.3	2482.1	2442.7	2370.0	2339.6	2266.9	2224.5	2142.7	2091.1	2033.6	1969.9
5°	3521.6	3427.6	3370.1	3288.2	3048.8	2900.3	2654.8	2445.7	2348.7	2242.7	2097.2
7.5°	4576.2	4515.6	4436.8	4261.1	4097.4	3788.3	3367.0	2906.4	2709.4	2527.5	2239.6
10°	5449.1	5279.4	5270.3	5139.9	4961.1	4591.4	4085.3	3512.5	3160.9	2894.3	2442.7
12.5°	6058.2	5903.7	5973.4	5958.2	5791.5	5452.1	4867.2	4109.5	3742.8	3327.6	2651.8
15°	6612.8	6549.2	6528.0	6509.8	6443.1	6191.6	5667.3	4836.9	4306.5	3806.5	2888.2
17.5°	7155.3	6991.7	7070.5	7085.6	7079.5	6852.3	6361.3	5527.9	4903.6	4312.6	3136.7
20°	7637.2	7652.3	7546.3	7525.1	7506.9	7497.8	7018.9	6212.8	5637.0	4842.9	3461.0
22.5°	8255.4	8149.4	8243.3	8182.7	8064.5	7991.8	7625.1	6818.9	6273.4	5482.4	3791.3
25°	8985.8	9070.7	8849.4	8825.2	8694.9	8443.3	8113.0	7497.8	6885.6	6076.4	4148.9
27.5°	9885.9	9737.4	9679.8	9546.5	9310.1	9204.0	8816.1	8197.8	7625.1	6700.7	4494.4
30°	10658.7	10619.3	10331.4	10173.8	9967.7	9964.7	9422.2	9146.4	8588.8	7679.6	4970.2
32.5°	11289.1	11116.3	11010.3	10901.2	10734.5	10779.9	10322.3	10176.8	9616.2	8588.8	5530.9
35°	11710.3	11586.1	11522.4	11355.8	11307.3	11510.3	11319.4	11258.8	10798.1	9867.7	6188.5
37.5°	11843.7	11883.1	11871.0	11661.9	11764.9	12313.4	12558.9	12401.3	12158.9	11216.4	6900.7
40°	11961.9	11989.2	11928.6	12174.0	12468.0	13092.3	13980.3	13719.7	13628.7	12583.2	7891.8
42.5°	12028.6	12007.3	12007.3	12431.6	12877.1	14131.8	15353.2	15180.4	15110.7	14037.9	9037.3
45°	11740.7	11534.6	11755.8	12331.6	13228.7	14644.0	16450.3	16689.7	16589.7	15768.4	10376.9
47.5°	10664.8	10792.1	10916.3	11686.1	12801.4	14486.4	17123.0	17938.3	18123.2	17223.1	11255.8
50°	9037.3	9010.1	9267.7	10237.5	11592.2	13807.5	16992.7	18298.9	18635.3	17659.5	11440.6
52.5°	6573.4	6773.5	7052.3	8016.0	9622.2	12049.8	15310.7	17368.5	17817.1	17123.0	11319.4
55°	3827.7	3606.4	4233.8	5049.0	6564.3	9088.9	12943.8	15395.6	16226.0	16147.2	10707.2
57.5°	1533.5	1485.0	1700.2	2291.2	3424.6	5633.9	9413.1	12649.8	13980.3	14789.5	9410.1
60°	672.8	657.6	772.8	933.4	1400.2	2597.2	5149.0	7867.5	9255.5	10334.4	6476.5
62.5°	484.9	478.8	536.4	594.0	739.5	1130.4	2163.9	3170.0	3951.9	4773.2	2900.3
65°	391.0	406.1	445.5	475.8	545.5	627.3	763.7	881.9	1081.9	1121.3	639.5
67.5°	318.2	330.3	366.7	400.0	412.2	339.4	351.6	309.1	309.1	275.8	221.2
70°	233.4	236.4	278.8	318.2	254.6	136.4	239.4	239.4	215.2	206.1	187.9
72.5°	172.7	175.8	209.1	197.0	100.0	84.9	175.8	194.0	175.8	166.7	151.5
75°	127.3	130.3	109.1	45.5	42.4	54.6	103.0	133.3	127.3	124.3	115.2
77.5°	24.2	18.2	15.2	21.2	30.3	45.5	66.7	81.8	84.9	90.9	84.9
80°	3.0	3.0	9.1	18.2	33.3	48.5	69.7	78.8	81.8	84.9	78.8
82.5°	0.0	3.0	9.1	18.2	33.3	45.5	60.6	69.7	75.8	78.8	75.8
85°	0.0	3.0	6.1	15.2	27.3	33.3	30.3	21.2	18.2	21.2	15.2
87.5°	0.0	0.0	3.0	3.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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: P529593

CATALOG NUMBER: GALN-SA4D-730-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3	1909.3
2.5°	1933.5	1921.4	1879.0	1833.5	1794.1	1812.3	1794.1	1779.0	1785.0	1779.0	1772.9
5°	2039.6	1985.1	1894.1	1854.7	1821.4	1818.4	1809.3	1806.3	1809.3	1809.3	1782.0
7.5°	2139.6	2051.7	1954.8	1912.3	1872.9	1876.0	1854.7	1854.7	1851.7	1836.6	1830.5
10°	2291.2	2173.0	2048.7	1972.9	1924.4	1915.4	1894.1	1872.9	1872.9	1872.9	1842.6
12.5°	2457.8	2309.3	2139.6	2051.7	1994.2	1948.7	1915.4	1909.3	1876.0	1869.9	1854.7
15°	2603.3	2415.4	2200.2	2079.0	2006.3	1945.7	1894.1	1860.8	1845.7	1836.6	1824.4
17.5°	2745.7	2506.3	2233.6	2079.0	2000.2	1930.5	1876.0	1845.7	1809.3	1815.3	1791.1
20°	2936.7	2603.3	2242.7	2039.6	1942.6	1876.0	1803.2	1788.1	1766.9	1748.7	1754.7
22.5°	3121.5	2673.0	2215.4	1991.1	1851.7	1772.9	1736.6	1718.4	1709.3	1694.1	1672.9
25°	3288.2	2748.8	2173.0	1903.2	1754.7	1697.2	1663.8	1660.8	1639.6	1639.6	1600.2
27.5°	3457.9	2776.1	2100.2	1800.2	1669.9	1636.5	1621.4	1615.3	1606.2	1585.0	1557.7
30°	3651.9	2785.1	1994.2	1694.1	1594.1	1557.7	1579.0	1594.1	1554.7	1515.3	1527.4
32.5°	3812.5	2763.9	1866.9	1594.1	1539.6	1521.4	1563.8	1579.0	1533.5	1491.1	1469.9
35°	4006.5	2712.4	1742.6	1515.3	1485.0	1521.4	1557.7	1557.7	1466.8	1415.3	1403.2
37.5°	4300.5	2654.8	1627.4	1448.6	1427.4	1503.2	1551.7	1518.3	1375.9	1312.3	1297.1
40°	4615.6	2618.5	1515.3	1382.0	1397.1	1472.9	1500.2	1397.1	1251.6	1212.3	1200.1
42.5°	5073.3	2545.7	1415.3	1324.4	1369.8	1430.5	1430.5	1245.6	1191.0	1169.8	1166.8
45°	5643.0	2494.2	1327.4	1275.9	1330.4	1345.6	1297.1	1166.8	1127.4	1121.3	1124.4
47.5°	5921.8	2394.2	1236.5	1218.3	1257.7	1260.7	1133.5	1103.1	1069.8	1060.7	1054.7
50°	5879.4	2215.4	1118.3	1142.5	1197.1	1166.8	1033.4	1039.5	1009.2	1006.2	991.0
52.5°	5582.4	1933.5	1000.1	1057.7	1118.3	1030.4	951.6	945.6	945.6	906.2	891.0
55°	4949.0	1557.7	857.7	930.4	1003.1	866.8	845.5	839.5	824.3	788.0	778.9
57.5°	3918.6	1142.5	645.5	724.3	851.6	736.4	733.4	706.1	666.7	639.5	639.5
60°	2330.6	657.6	406.1	442.5	563.7	597.0	663.7	651.6	584.9	542.5	530.4
62.5°	1063.8	339.4	257.6	263.7	303.1	387.9	521.3	603.1	509.1	436.4	430.3
65°	357.6	251.5	212.1	203.1	209.1	233.4	312.2	427.3	406.1	336.4	324.3
67.5°	218.2	224.3	200.0	184.9	184.9	181.8	178.8	194.0	239.4	233.4	236.4
70°	187.9	206.1	184.9	166.7	160.6	151.5	127.3	106.1	90.9	106.1	112.1
72.5°	151.5	163.7	157.6	142.4	127.3	115.2	90.9	69.7	51.5	45.5	45.5
75°	112.1	121.2	127.3	109.1	97.0	81.8	66.7	45.5	27.3	18.2	18.2
77.5°	81.8	90.9	93.9	84.9	72.7	57.6	42.4	30.3	15.2	6.1	6.1
80°	69.7	81.8	90.9	84.9	75.8	54.6	39.4	21.2	12.1	3.0	3.0
82.5°	66.7	81.8	90.9	81.8	72.7	51.5	39.4	24.2	9.1	3.0	3.0
85°	15.2	21.2	27.3	33.3	39.4	39.4	30.3	18.2	9.1	3.0	3.0
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	3.0	3.0	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)