

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: P452564

Luminaire Tested: **GALN-SA3C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13763 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

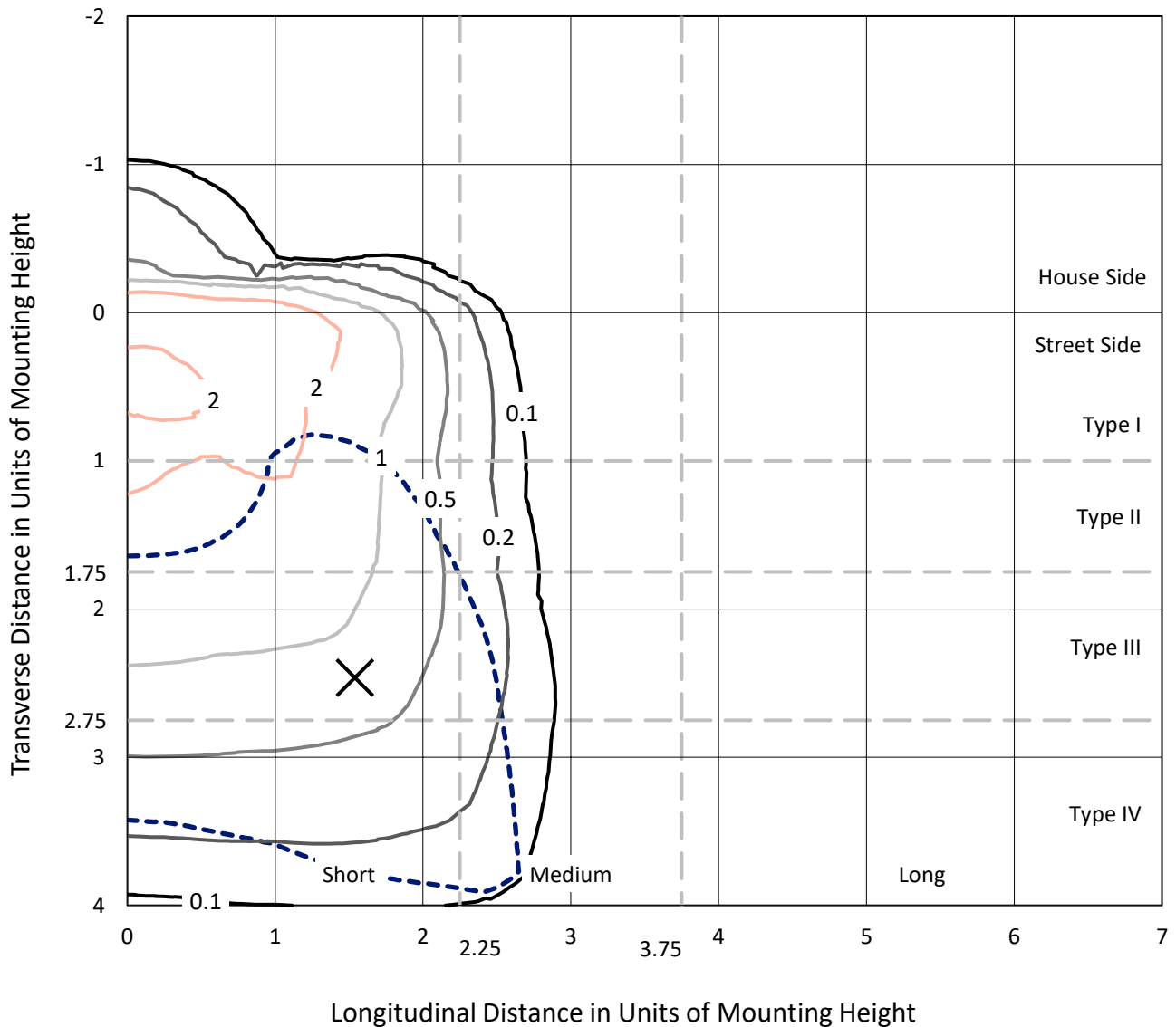
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452564
 CATALOG NUMBER: GALN-SA3C-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

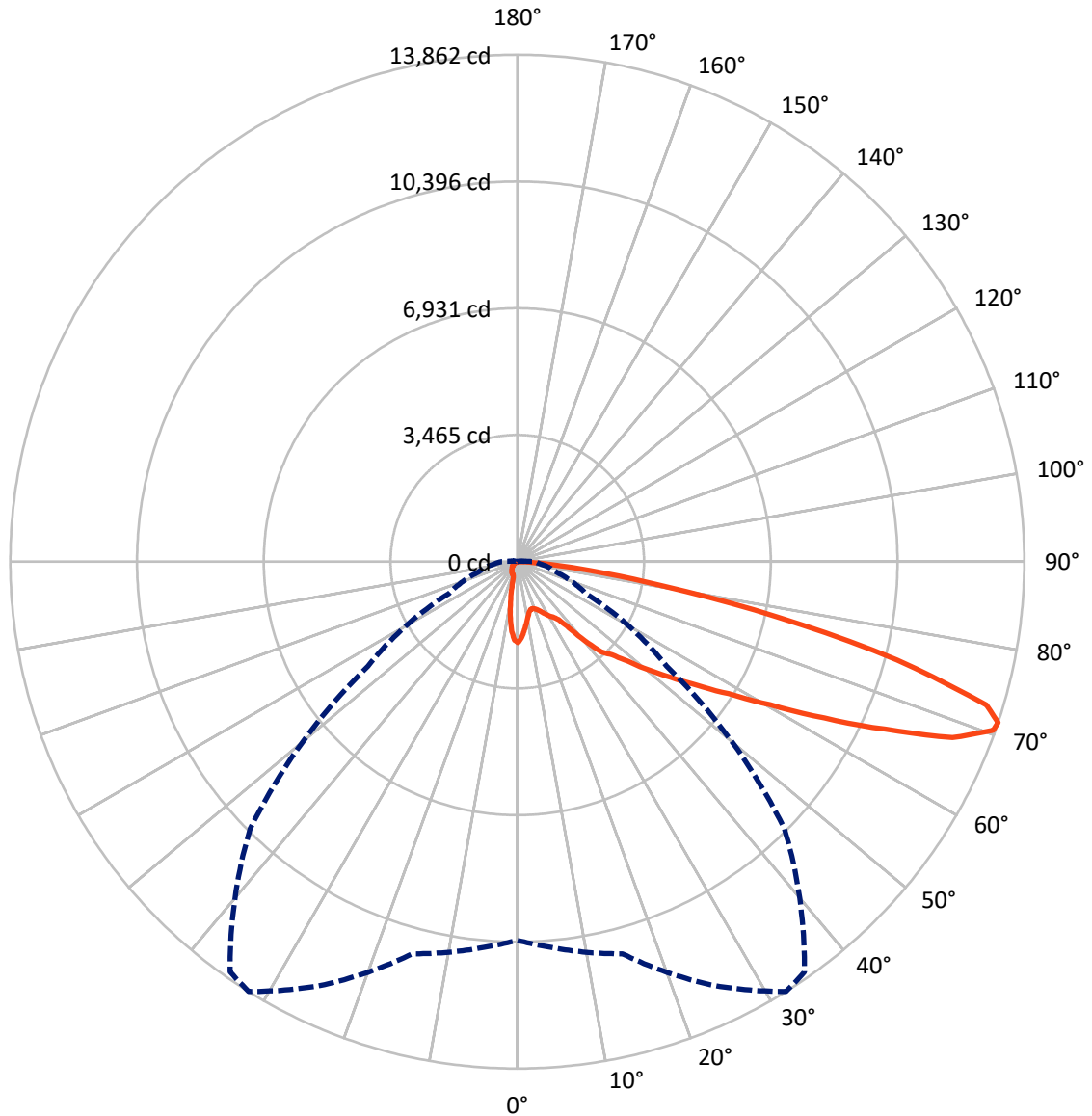
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P452564
CATALOG NUMBER: GALN-SA3C-730-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P452564
 CATALOG NUMBER: GALN-SA3C-730-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1152.8	0.0	1152.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12610.2	0.0	12610.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	13763.0	0.0	13763.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.3
10°-20°	390.6	2.8
20°-30°	607.6	4.4
30°-40°	1012.3	7.4
40°-50°	1883.1	13.7
50°-60°	3023.4	22.0
60°-70°	4066.6	29.5
70°-80°	2412.8	17.5
80°-90°	186.5	1.4
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°	13763.0	100.0
0°-180°	13763.0	100.0



REPORT NUMBER: P452564

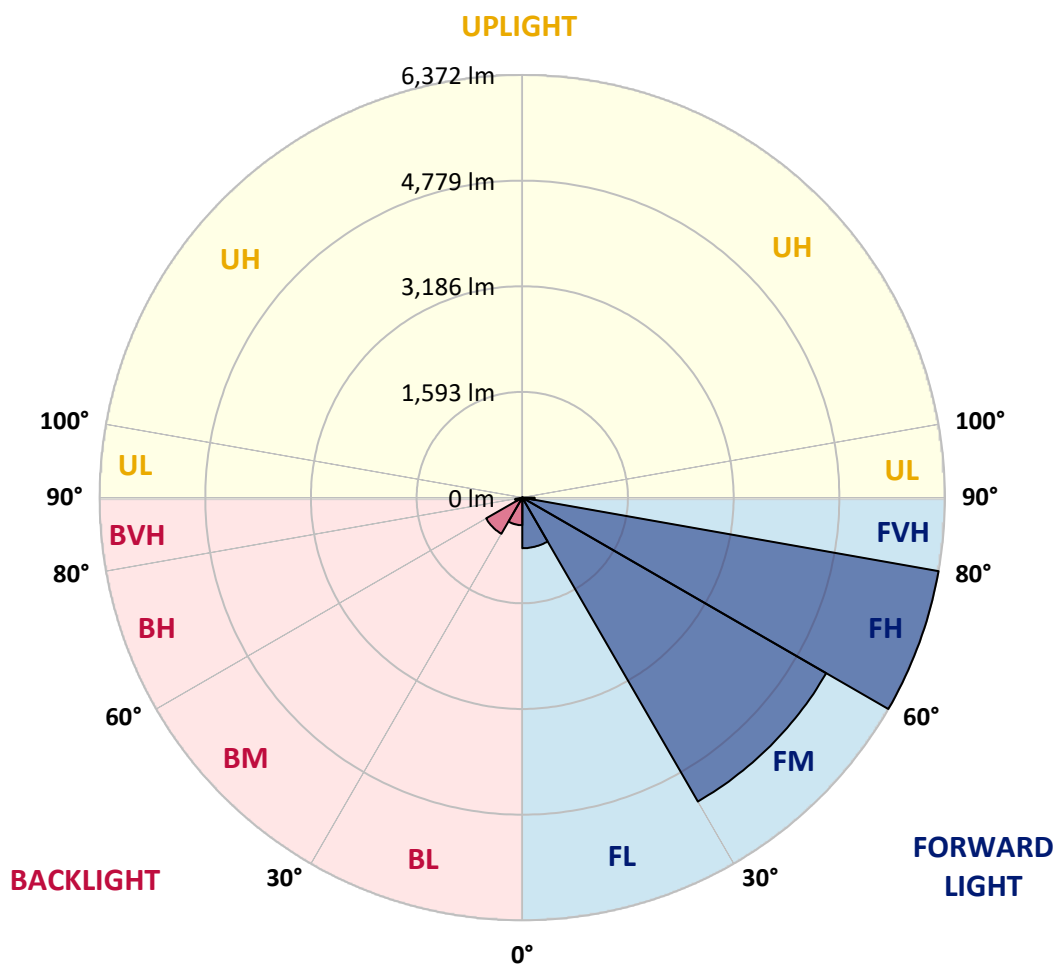
CATALOG NUMBER: GALN-SA3C-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.8	5.5			
FM (30°-60°)	5290.0	38.4			
FH (60°-80°)	6371.6	46.3			G3/7500
FVH (80°-90°)	185.8	1.3			G2/225
BL (0°-30°)	415.4	3.0	B1/500		
BM (30°-60°)	628.9	4.6	B1/1000		
BH (60°-80°)	107.8	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	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-G3

Type IV Short





REPORT NUMBER: P452564

CATALOG NUMBER: GALN-SA3C-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2.5°	2052.7	2073.9	2070.7	2078.1	2096.0	2103.4	2123.5	2145.7	2176.3	2197.5	2211.2
5°	1838.3	1854.1	1856.2	1893.2	1911.2	1931.2	1990.4	2054.8	2126.7	2183.7	2221.8
7.5°	1609.0	1617.5	1634.4	1683.0	1728.4	1748.5	1838.3	1950.2	2063.3	2170.0	2238.7
10°	1419.9	1429.4	1460.0	1511.8	1554.1	1580.5	1705.1	1845.7	2004.1	2162.6	2263.0
12.5°	1312.1	1317.4	1329.0	1375.5	1429.4	1457.9	1592.1	1752.7	1956.6	2165.8	2304.2
15°	1304.7	1302.6	1288.9	1307.9	1356.5	1386.1	1517.1	1689.3	1914.3	2176.3	2352.8
17.5°	1343.8	1338.5	1305.8	1305.8	1345.9	1370.2	1485.4	1655.5	1893.2	2200.6	2421.4
20°	1404.0	1395.6	1341.7	1337.5	1376.6	1401.9	1504.4	1657.6	1897.4	2246.1	2513.3
22.5°	1480.1	1470.6	1389.3	1391.4	1433.6	1459.0	1559.4	1695.6	1923.8	2302.0	2611.6
25°	1579.4	1568.9	1472.7	1468.5	1512.9	1535.1	1640.7	1763.2	1960.8	2371.8	2740.5
27.5°	1711.5	1689.3	1574.1	1567.8	1615.3	1643.9	1739.0	1854.1	2026.3	2467.9	2913.7
30°	1820.3	1796.0	1686.1	1669.2	1719.9	1742.1	1840.4	1976.7	2155.2	2635.9	3153.6
32.5°	1962.9	1927.0	1798.1	1753.7	1807.6	1836.1	1987.2	2204.9	2346.4	2813.4	3438.8
35°	2284.1	2261.9	2104.5	1949.2	1946.0	1981.9	2203.8	2435.2	2542.9	3090.2	3827.6
37.5°	2743.7	2727.8	2560.9	2352.8	2292.5	2275.6	2466.9	2688.7	2856.7	3470.5	4279.8
40°	3277.2	3240.2	3087.0	2910.6	2832.4	2782.7	2777.5	3065.9	3266.6	3987.1	4750.9
42.5°	3659.6	3592.0	3406.1	3393.4	3376.5	3324.7	3174.7	3617.4	3795.9	4542.8	5254.9
45°	4061.1	3958.6	3681.8	3634.3	3627.9	3624.7	3774.8	4270.3	4372.7	5145.0	5772.6
47.5°	4372.7	4291.4	4064.2	4043.1	4069.5	4141.4	4568.2	4963.3	4942.2	5681.7	6206.8
50°	4787.9	4726.6	4474.2	4514.3	4650.6	4767.9	5463.0	5718.7	5410.2	6104.3	6522.6
52.5°	5278.1	5165.1	4930.5	5039.4	5248.5	5444.0	6412.8	6380.0	5738.7	6422.3	6758.2
55°	5702.8	5622.5	5542.2	5655.3	5968.0	6212.0	7270.6	6875.5	5977.5	6677.9	6861.8
57.5°	6421.2	6402.2	6319.8	6435.0	6814.2	7067.8	8038.7	7260.1	6130.7	6811.1	6740.3
60°	7484.0	7453.4	7300.2	7447.1	7941.5	8339.8	8746.5	7605.5	6165.6	6759.3	6390.6
62.5°	8762.4	8657.8	8526.8	8743.3	9421.6	9597.0	9413.2	7810.5	6035.6	6347.3	5547.5
65°	9956.2	9848.4	9851.6	10308.0	11046.5	11165.8	10190.7	7779.8	5655.3	5315.1	4091.7
67.5°	10870.0	10852.1	10981.0	11871.6	12837.2	12754.8	10885.9	7321.3	4528.0	3445.1	2174.2
70°	10916.5	10951.4	11321.1	12824.5	13804.9	13673.9	10826.7	5951.1	2822.9	1584.7	856.8
71°	10354.5	10589.0	11100.3	12794.9	13861.9	13691.9	10328.1	4984.4	2070.7	1105.1	618.0
72.5°	8823.6	8947.2	10052.3	12041.6	13410.8	13047.4	9063.5	3493.7	1325.9	676.1	355.0
75°	4859.8	5164.0	6731.8	9447.0	10726.3	10407.3	5906.7	1659.7	661.4	369.8	146.8
77.5°	2313.7	2254.5	3284.6	5618.3	7272.7	7255.8	2976.1	737.4	385.6	250.4	74.0
80°	661.4	743.8	1257.2	2670.8	4037.8	4082.2	1143.1	356.0	267.3	195.4	38.0
82.5°	199.7	203.9	461.7	1181.1	2008.4	1893.2	428.9	181.7	192.3	155.3	22.2
85°	34.9	43.3	136.3	416.2	765.9	581.1	107.8	86.6	126.8	102.5	12.7
87.5°	2.1	3.2	45.4	47.5	67.6	39.1	19.0	12.7	27.5	27.5	7.4
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: P452564

CATALOG NUMBER: GALN-SA3C-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2.5°	2220.7	2227.0	2222.8	2213.3	2197.5	2178.4	2153.1	2132.0	2114.0	2104.5	2116.1
5°	2234.4	2242.9	2221.8	2174.2	2102.4	2024.2	1935.5	1866.8	1812.9	1796.0	1789.7
7.5°	2255.6	2260.8	2203.8	2098.2	1946.0	1761.1	1599.5	1463.2	1357.6	1325.9	1279.4
10°	2283.0	2279.9	2172.1	1975.6	1708.3	1430.5	1180.1	994.1	853.6	802.9	798.7
12.5°	2325.3	2308.4	2132.0	1808.7	1425.2	1061.8	752.2	588.5	499.7	470.1	463.8
15°	2378.1	2338.0	2068.6	1613.2	1091.3	685.6	463.8	414.1	402.5	400.4	398.3
17.5°	2440.4	2377.1	1985.1	1373.4	767.0	444.8	387.7	386.7	387.7	385.6	384.6
20°	2525.0	2418.3	1885.8	1089.2	507.1	375.0	369.8	369.8	370.8	369.8	369.8
22.5°	2614.8	2466.9	1763.2	831.4	382.4	356.0	355.0	357.1	359.2	358.1	358.1
25°	2725.7	2530.2	1601.6	569.4	342.3	340.2	341.2	345.5	349.7	350.7	349.7
27.5°	2886.3	2608.4	1428.3	392.0	313.8	315.9	326.4	337.0	343.4	344.4	344.4
30°	3066.9	2695.1	1202.3	318.0	290.5	290.5	303.2	323.3	337.0	339.1	340.2
32.5°	3299.4	2795.4	951.9	286.3	268.3	266.2	277.9	302.2	327.5	334.9	334.9
35°	3586.7	2913.7	707.8	266.2	252.5	247.2	253.6	273.6	306.4	327.5	329.6
37.5°	3923.7	3025.7	517.7	248.3	237.7	230.3	234.5	250.4	276.8	308.5	316.9
40°	4235.4	3125.0	386.7	233.5	222.9	217.6	220.8	228.2	250.4	280.0	285.2
42.5°	4575.6	3202.2	307.4	217.6	208.1	206.0	206.0	209.2	224.0	240.9	241.9
45°	4914.7	3229.6	257.8	198.6	192.3	194.4	193.3	191.2	197.6	195.4	195.4
47.5°	5156.6	3196.9	213.4	180.7	180.7	183.8	178.5	171.1	168.0	155.3	156.4
50°	5322.5	3077.5	175.4	159.5	168.0	172.2	161.6	150.0	138.4	124.7	121.5
52.5°	5391.2	2865.1	143.7	132.1	149.0	154.2	141.6	127.8	109.9	98.3	95.1
55°	5346.8	2603.1	119.4	107.8	125.7	132.1	119.4	103.5	83.5	70.8	68.7
57.5°	5151.3	2290.4	101.4	85.6	100.4	104.6	96.1	79.2	59.2	46.5	46.5
60°	4813.3	1967.1	82.4	67.6	75.0	81.3	72.9	57.0	40.1	28.5	26.4
62.5°	4127.6	1597.4	66.6	52.8	52.8	58.1	50.7	41.2	25.4	14.8	13.7
65°	2980.3	1095.6	52.8	39.1	38.0	38.0	31.7	27.5	14.8	6.3	4.2
67.5°	1619.6	618.0	42.3	29.6	26.4	25.4	20.1	15.8	6.3	1.1	0.0
70°	637.1	237.7	32.8	20.1	16.9	15.8	10.6	7.4	4.2	0.0	0.0
71°	432.1	163.8	28.5	16.9	13.7	11.6	8.5	6.3	3.2	0.0	0.0
72.5°	247.2	101.4	22.2	12.7	10.6	8.5	6.3	4.2	3.2	0.0	0.0
75°	107.8	51.8	13.7	9.5	7.4	5.3	4.2	3.2	1.1	0.0	0.0
77.5°	54.9	28.5	9.5	7.4	4.2	3.2	2.1	1.1	0.0	0.0	0.0
80°	30.6	14.8	6.3	4.2	3.2	2.1	1.1	1.1	0.0	0.0	0.0
82.5°	16.9	8.5	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.1	0.0	0.0	0.0	0.0	1.1	1.1	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)