

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: P451767

Luminaire Tested: **GALN-SA2C-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10997 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

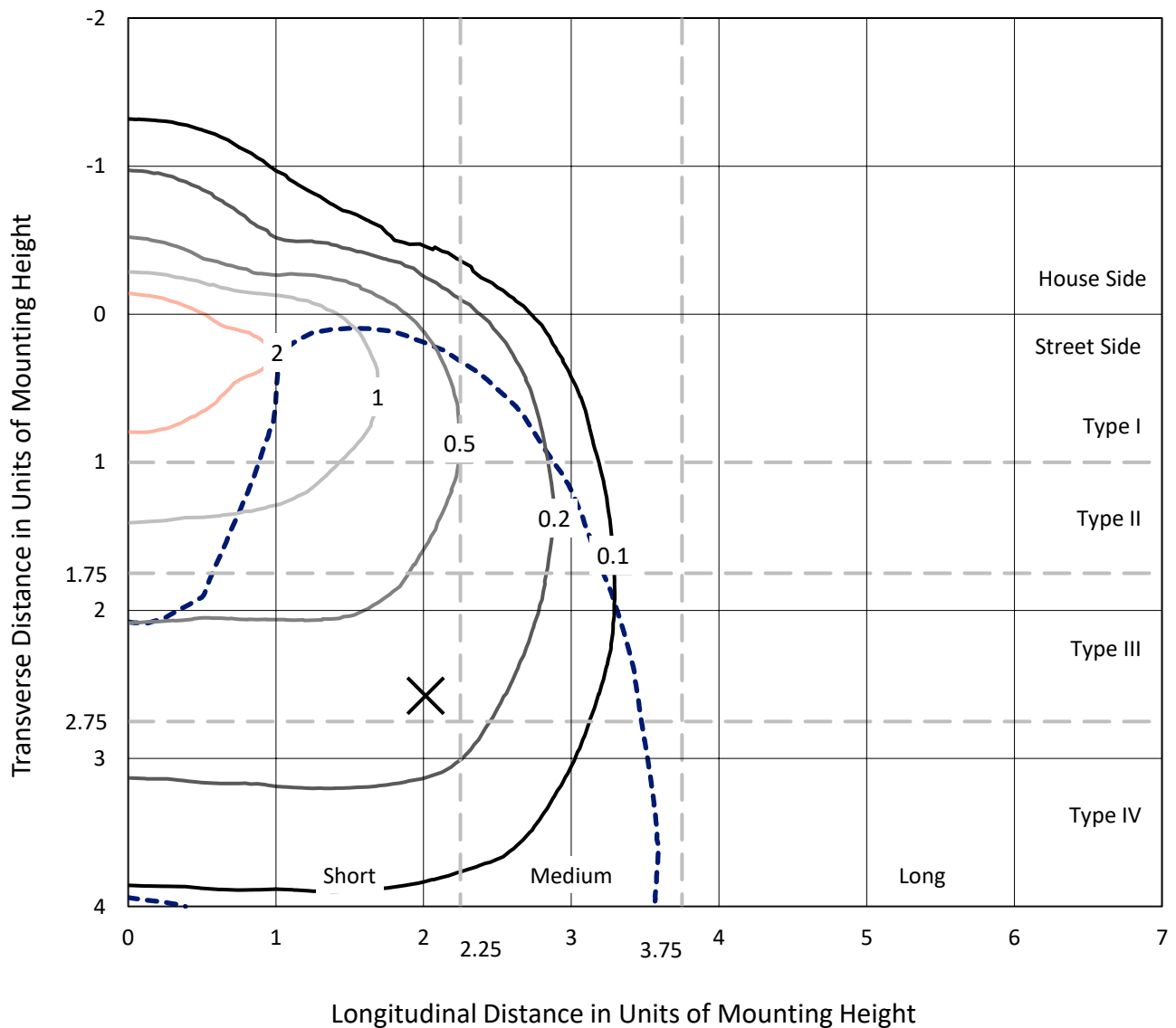
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451767
 CATALOG NUMBER: GALN-SA2C-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

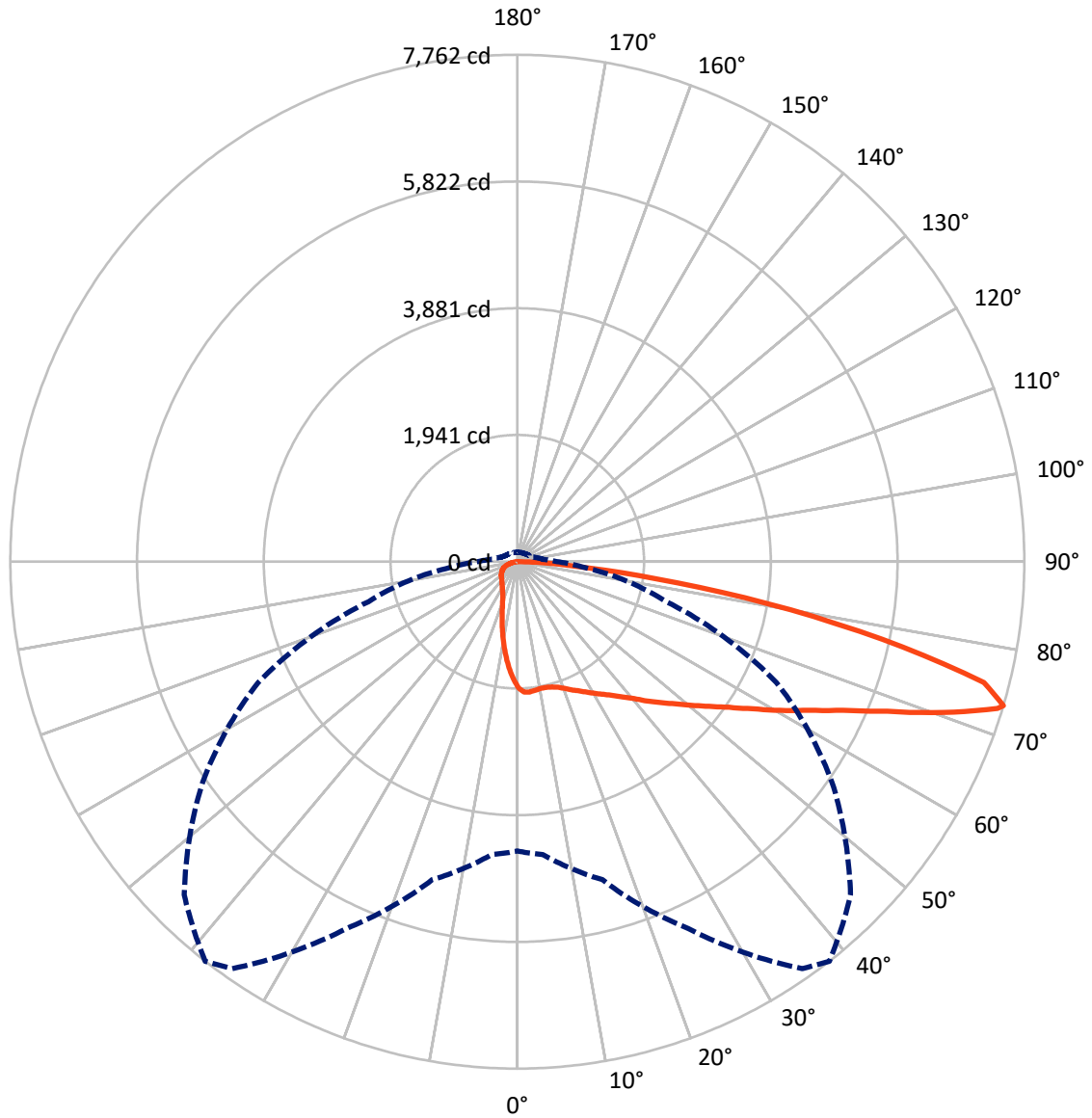
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P451767
CATALOG NUMBER: GALN-SA2C-830-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P451767

CATALOG NUMBER: GALN-SA2C-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.3	0.0	1478.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9518.7	0.0	9518.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	10997.0	0.0	10997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	1.5
10°-20°	432.5	3.9
20°-30°	673.4	6.1
30°-40°	987.7	9.0
40°-50°	1465.2	13.3
50°-60°	2075.9	18.9
60°-70°	2633.3	23.9
70°-80°	2192.0	19.9
80°-90°	368.3	3.3
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°	10997.0	100.0
0°-180°	10997.0	100.0

Coefficient of Utilization

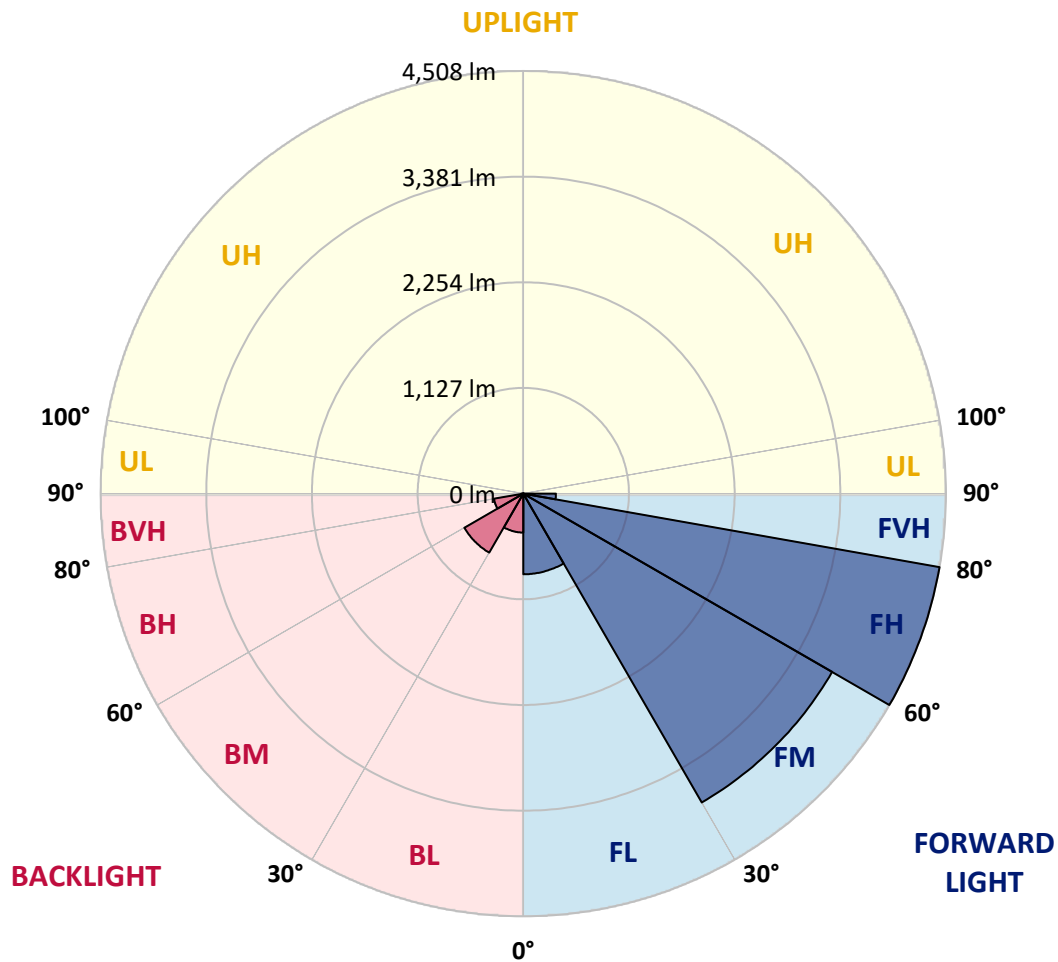


REPORT NUMBER: P451767
 CATALOG NUMBER: GALN-SA2C-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.7	7.8			
FM (30°-60°)	3803.1	34.6			
FH (60°-80°)	4507.6	41.0			G2/5000
FVH (80°-90°)	348.3	3.2			G3/500
BL (0°-30°)	414.8	3.8	B1/500		
BM (30°-60°)	725.8	6.6	B1/1000		
BH (60°-80°)	317.7	2.9	B1/500		G1/500
BVH (80°-90°)	20.0	0.2			G1/100
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: P451767

CATALOG NUMBER: GALN-SA2C-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	2009.6	2019.6	2014.6	2007.8	2003.4	1999.1	1992.8	1974.8	1960.6	1945.0	1920.8
5°	2024.5	2030.7	2026.4	2017.7	2007.8	2003.4	1991.6	1968.0	1945.0	1918.9	1882.9
7.5°	2015.8	2018.3	2013.3	2002.8	1994.1	1986.0	1972.4	1946.3	1918.3	1886.7	1839.5
10°	1984.8	1994.1	1994.1	1985.4	1976.7	1972.4	1958.7	1933.8	1908.4	1872.4	1816.5
12.5°	1959.3	1969.2	1977.3	1974.8	1974.2	1974.2	1963.7	1945.0	1915.2	1881.1	1814.6
15°	1941.9	1953.7	1971.1	1981.0	1987.3	1989.1	1984.8	1968.6	1938.2	1898.5	1822.1
17.5°	1938.2	1952.5	1984.2	2005.9	2022.0	2021.4	2020.2	1997.8	1964.3	1923.3	1831.4
20°	1955.0	1973.6	2017.7	2051.8	2075.4	2071.1	2064.3	2035.1	1996.0	1950.0	1840.1
22.5°	2005.3	2024.5	2073.0	2110.2	2133.2	2133.2	2112.7	2074.2	2032.6	1981.0	1851.9
25°	2077.3	2098.4	2150.0	2187.8	2198.4	2190.3	2169.8	2123.3	2075.4	2025.8	1876.7
27.5°	2165.5	2191.0	2238.8	2270.4	2267.3	2261.1	2240.0	2180.4	2132.6	2087.2	1918.9
30°	2275.4	2294.0	2343.7	2351.2	2340.0	2338.8	2308.9	2249.3	2204.6	2169.8	1979.2
32.5°	2379.1	2395.9	2435.6	2438.7	2418.9	2421.3	2393.4	2338.8	2313.3	2300.9	2080.4
35°	2489.0	2497.7	2531.9	2528.2	2515.1	2513.3	2502.1	2449.9	2458.0	2480.3	2223.9
37.5°	2581.0	2598.3	2617.6	2620.7	2620.1	2626.3	2633.7	2608.9	2655.5	2725.6	2412.0
40°	2665.4	2680.3	2708.9	2718.8	2743.0	2755.5	2780.9	2781.5	2889.0	3004.5	2643.7
42.5°	2722.5	2748.0	2801.4	2819.4	2878.4	2915.7	2953.6	2993.9	3149.8	3298.2	2916.9
45°	2772.2	2805.8	2894.6	2950.5	3030.6	3075.9	3156.0	3240.5	3464.7	3659.0	3194.5
47.5°	2847.4	2877.2	2979.0	3077.8	3198.9	3251.0	3370.9	3497.0	3790.1	4003.1	3460.3
50°	2951.7	2969.7	3073.4	3234.3	3388.9	3456.0	3614.3	3796.3	4137.8	4342.8	3693.8
52.5°	3085.2	3092.7	3175.3	3389.5	3593.2	3676.4	3886.3	4098.7	4442.1	4637.8	3878.9
55°	3243.0	3230.5	3295.1	3554.1	3826.7	3935.4	4160.8	4404.9	4784.3	4876.2	4013.6
57.5°	3398.8	3379.6	3431.1	3754.1	4114.9	4245.9	4508.6	4720.4	5089.9	5099.2	4108.0
60°	3564.0	3549.7	3611.2	3988.8	4468.2	4623.5	4866.3	5047.6	5385.5	5254.4	4122.9
62.5°	3733.6	3710.6	3798.1	4252.7	4866.3	5007.3	5242.6	5395.4	5675.5	5312.2	3979.5
65°	3898.1	3887.6	4023.0	4566.3	5319.6	5479.9	5708.4	5812.1	5907.7	5225.2	3623.6
67.5°	4073.3	4094.4	4310.5	4984.9	5910.8	6112.1	6358.6	6261.1	5974.2	4813.5	3051.7
70°	4340.3	4354.0	4688.1	5533.3	6672.8	6915.7	7034.9	6420.7	5653.7	4031.6	2294.0
72.5°	4455.2	4515.4	5025.3	6109.0	7538.5	7687.0	7262.2	6064.9	4709.8	2738.7	1205.4
73°	4429.7	4501.8	5040.8	6196.5	7606.2	7762.1	7213.7	5881.7	4378.2	2358.6	1033.4
75°	4112.4	4201.2	4839.0	6123.2	7474.6	7381.4	6435.0	5012.9	2958.5	1072.5	470.7
77.5°	3244.8	3270.3	3834.2	4944.5	5886.0	5713.4	4816.0	3133.0	1208.5	398.7	267.0
80°	1627.7	1721.5	2161.1	2832.5	3936.0	3879.5	3039.9	1481.7	503.6	234.1	177.0
82.5°	783.1	849.6	1052.6	1381.1	2174.8	2123.3	1505.3	809.8	319.8	136.6	104.3
85°	504.3	553.9	670.1	658.9	894.3	853.9	676.3	612.9	189.4	71.4	72.7
87.5°	332.9	364.5	437.2	349.6	325.4	294.4	298.7	345.3	37.3	27.3	9.9
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: P451767
 CATALOG NUMBER: GALN-SA2C-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	1910.9	1902.8	1876.1	1850.0	1825.2	1801.6	1786.0	1765.6	1751.9	1755.6	1761.2
5°	1863.1	1845.0	1797.8	1751.9	1708.4	1656.9	1615.3	1581.7	1556.3	1547.0	1545.1
7.5°	1812.8	1782.3	1714.6	1635.8	1561.9	1497.9	1424.0	1387.4	1344.5	1329.6	1324.6
10°	1782.3	1741.3	1646.3	1536.4	1425.2	1319.0	1238.9	1173.7	1114.7	1103.5	1098.0
12.5°	1773.6	1719.6	1591.7	1450.1	1302.3	1171.9	1053.2	967.5	910.4	897.4	878.1
15°	1768.7	1701.6	1540.7	1363.1	1175.6	1016.6	891.8	791.8	739.6	704.9	705.5
17.5°	1764.3	1681.1	1483.6	1268.1	1066.3	883.1	745.2	655.2	607.4	588.7	586.9
20°	1758.1	1656.9	1417.8	1168.1	941.5	761.4	636.5	569.5	537.2	521.7	521.0
22.5°	1755.6	1633.3	1353.2	1066.3	830.9	667.6	564.5	517.3	496.8	486.3	486.3
25°	1761.8	1616.5	1285.5	969.4	732.8	587.5	514.8	482.5	470.7	465.1	463.3
27.5°	1781.1	1609.1	1218.4	872.5	642.8	532.8	481.3	458.9	450.2	445.9	446.5
30°	1817.7	1608.4	1152.6	776.9	575.7	491.2	454.6	439.1	432.2	429.7	429.1
32.5°	1876.7	1622.1	1088.0	698.0	519.2	456.4	429.7	418.6	415.5	413.6	413.0
35°	1976.7	1660.6	1024.1	626.0	475.7	425.4	406.1	400.6	396.2	398.1	398.7
37.5°	2111.5	1727.1	963.2	569.5	442.8	402.4	386.3	381.3	378.8	380.7	382.5
40°	2292.2	1822.7	912.3	524.1	419.2	383.2	368.9	364.5	362.1	365.2	365.8
42.5°	2491.5	1933.2	870.0	488.7	399.9	367.0	353.4	348.4	346.5	348.4	349.0
45°	2696.5	2061.8	848.3	463.3	383.8	355.2	340.9	335.3	331.0	329.8	331.6
47.5°	2898.3	2173.6	847.7	447.8	370.7	344.7	329.1	322.9	317.3	314.2	313.6
50°	3062.9	2262.4	862.6	440.9	359.6	332.9	317.3	311.1	303.7	297.5	298.7
52.5°	3187.1	2320.1	869.4	437.8	353.4	320.4	304.9	299.3	290.6	282.6	282.6
55°	3267.2	2333.8	852.7	434.7	348.4	307.4	290.6	285.7	277.0	268.9	268.9
57.5°	3294.5	2291.6	792.4	427.3	343.4	296.2	276.4	272.0	265.2	257.1	255.9
60°	3231.2	2148.7	686.8	404.9	333.5	284.4	260.8	259.0	256.5	249.6	249.0
62.5°	2987.1	1845.7	572.0	375.7	316.7	272.0	246.5	249.6	251.5	247.8	247.2
65°	2581.0	1498.5	488.7	335.3	294.4	254.6	231.0	239.1	244.1	244.1	242.8
67.5°	2093.5	1150.7	411.7	300.6	266.4	231.0	213.6	219.8	223.6	222.3	225.4
70°	1488.0	779.4	335.3	260.8	231.0	204.3	191.3	191.3	188.8	187.5	187.5
72.5°	721.6	445.3	272.0	218.0	196.9	174.5	163.9	159.6	154.6	154.0	150.9
73°	603.0	399.3	259.6	209.9	188.8	170.2	158.4	151.5	148.4	145.9	145.3
75°	367.0	303.1	216.7	177.0	160.8	146.6	136.0	129.8	126.7	124.8	124.2
77.5°	241.6	226.1	168.3	135.4	123.0	114.3	109.9	103.7	101.8	99.4	99.4
80°	180.1	172.6	120.5	95.6	88.2	80.7	79.5	78.2	73.3	70.2	68.9
82.5°	116.1	123.0	82.0	64.0	55.9	49.7	50.3	52.2	47.2	42.9	41.6
85°	82.6	88.8	49.7	29.2	23.6	20.5	23.0	20.5	21.1	16.8	13.7
87.5°	13.7	23.6	8.7	3.7	1.9	1.2	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)