

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: P527005

Luminaire Tested: **GALN-SA2A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6248 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

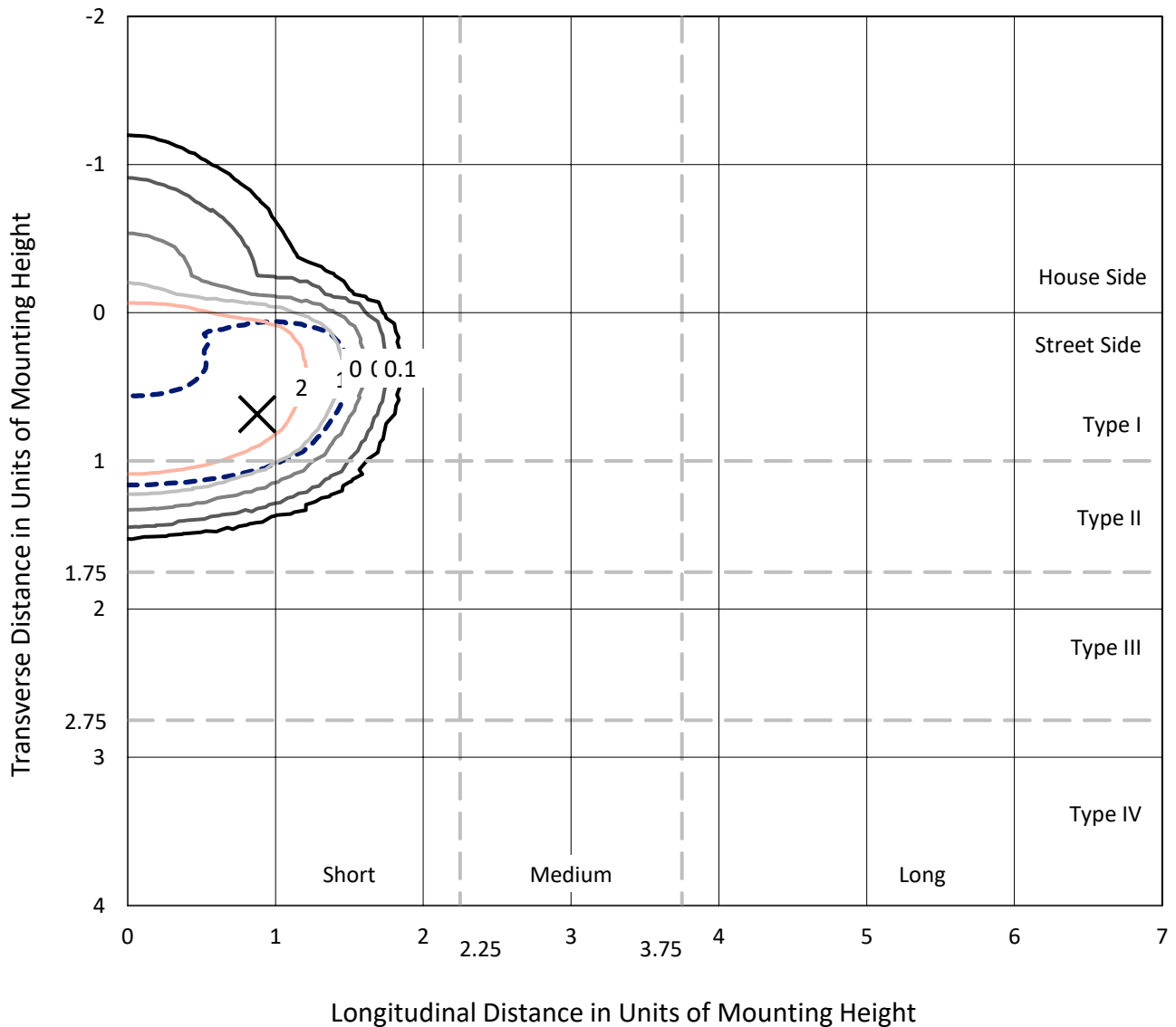
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527005
 CATALOG NUMBER: GALN-SA2A-730-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

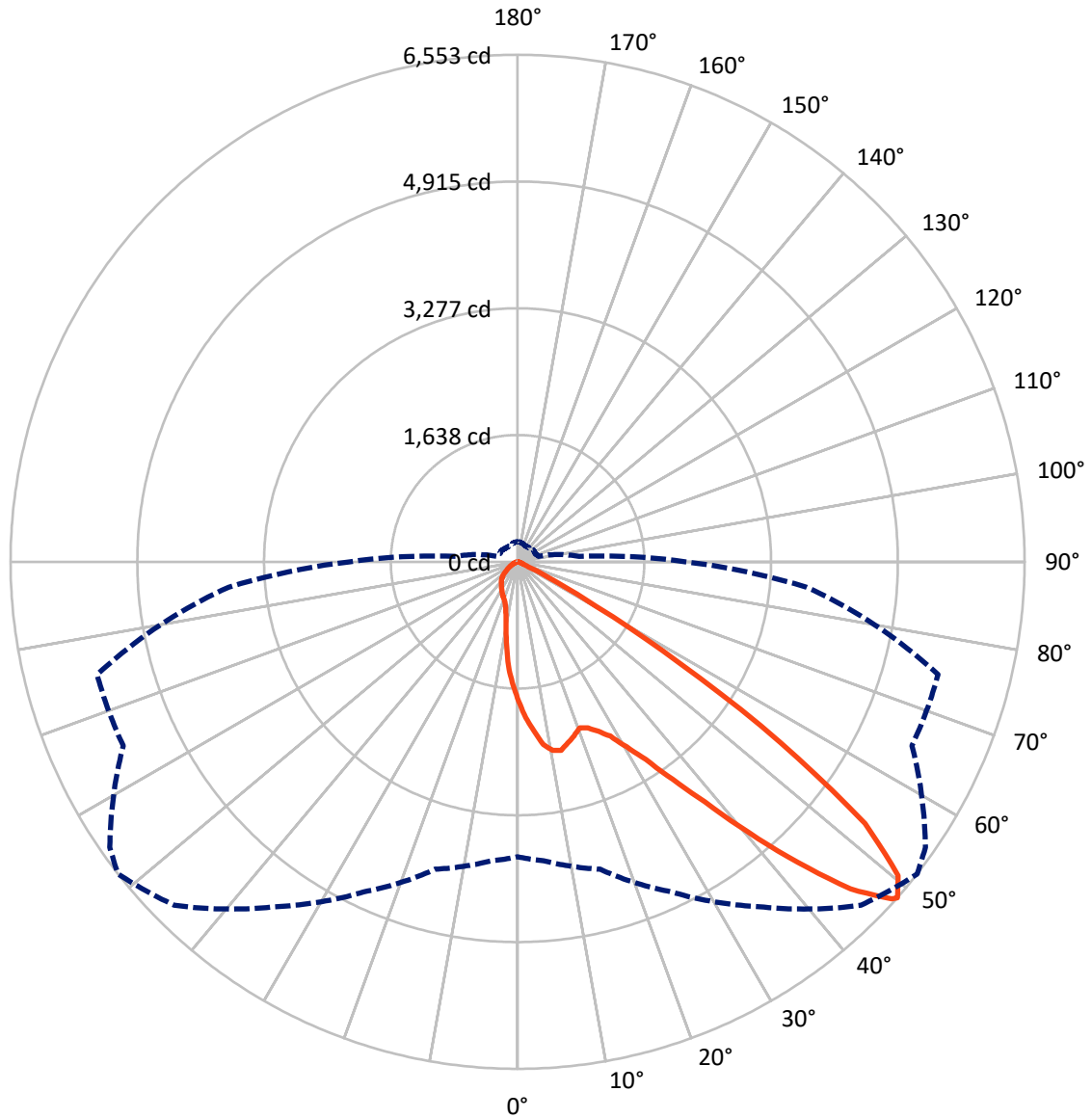
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

REPORT NUMBER: P527005
CATALOG NUMBER: GALN-SA2A-730-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P527005
 CATALOG NUMBER: GALN-SA2A-730-U-AFL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	760.7	0.0	760.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5487.2	0.0	5487.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	6248.0	0.0	6248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	2.6
10°-20°	431.6	6.9
20°-30°	736.9	11.8
30°-40°	1357.0	21.7
40°-50°	2107.4	33.7
50°-60°	1268.3	20.3
60°-70°	146.7	2.3
70°-80°	28.4	0.5
80°-90°	6.6	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°	6248.0	100.0
0°-180°	6248.0	100.0

Coefficient of Utilization

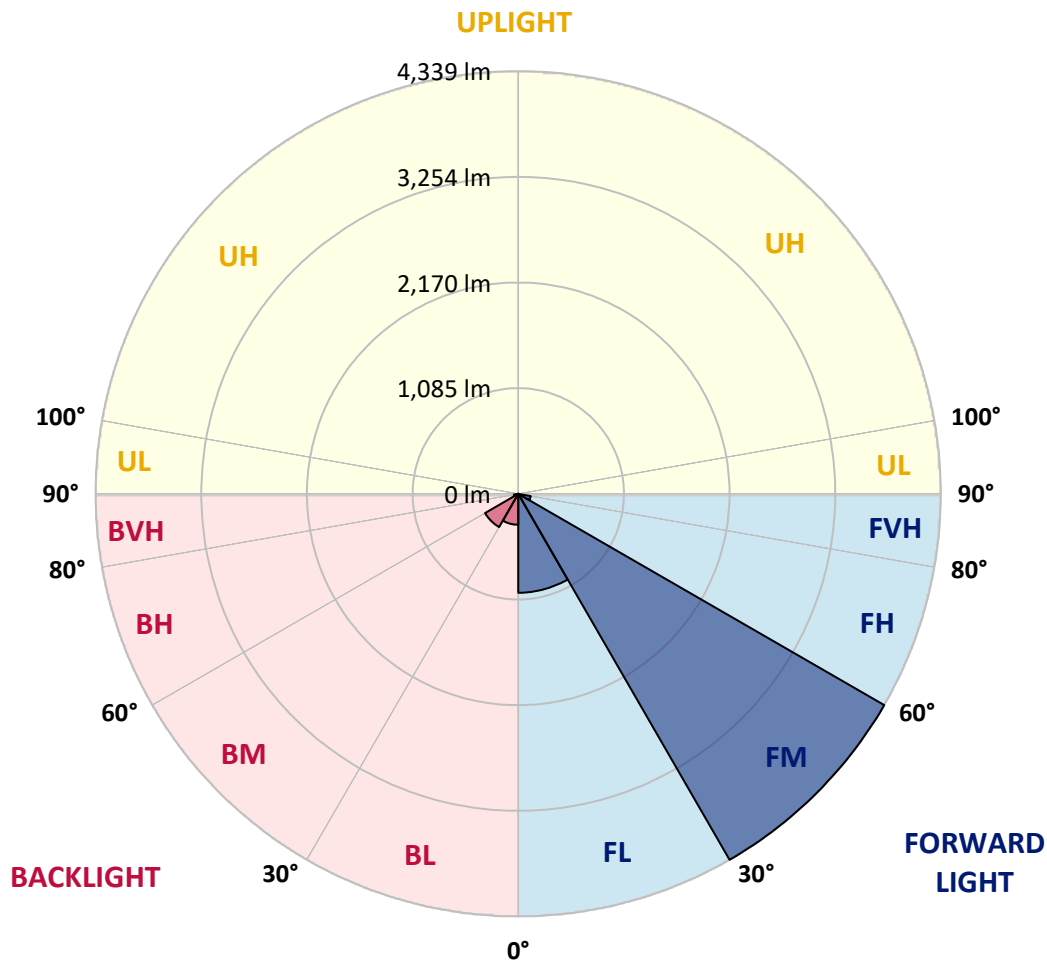


REPORT NUMBER: P527005
 CATALOG NUMBER: GALN-SA2A-730-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.8	16.3			
FM (30°-60°)	4339.1	69.4			
FH (60°-80°)	129.2	2.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	317.8	5.1	B1/500		
BM (30°-60°)	393.6	6.3	B1/1000		
BH (60°-80°)	45.9	0.7	B0/110		G0/110
BVH (80°-90°)	3.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P527005

CATALOG NUMBER: GALN-SA2A-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3
2.5°	2186.9	2136.8	2141.3	2108.5	2089.4	2058.4	2016.5	2008.3	1962.8	1900.9	1838.0
5°	2383.6	2371.8	2387.2	2339.9	2341.7	2290.7	2192.3	2194.1	2089.4	1988.3	1890.8
7.5°	2396.3	2369.0	2384.5	2426.4	2451.0	2441.9	2386.3	2338.1	2238.8	2090.3	1948.2
10°	2145.9	2197.8	2214.2	2283.4	2381.8	2485.6	2479.2	2482.0	2399.1	2205.1	1997.4
12.5°	1995.6	1961.0	2016.5	2058.4	2206.9	2408.2	2500.2	2520.2	2526.6	2316.2	2046.6
15°	1927.3	1927.3	1936.4	1948.2	2055.7	2241.5	2429.1	2487.4	2625.0	2461.9	2124.0
17.5°	1970.1	1968.3	1981.0	1956.4	1996.5	2139.5	2363.6	2430.0	2735.2	2604.9	2185.0
20°	2100.3	2106.7	2098.5	2027.5	2030.2	2137.7	2290.7	2395.4	2809.9	2728.8	2266.1
22.5°	2281.6	2285.2	2238.8	2161.4	2138.6	2191.4	2332.6	2412.7	2870.0	2877.3	2290.7
25°	2491.1	2476.5	2467.4	2358.1	2288.9	2334.4	2427.3	2473.8	2907.3	3004.8	2360.8
27.5°	2781.6	2752.5	2696.9	2599.5	2548.5	2483.8	2550.3	2626.8	3013.9	3183.3	2437.3
30°	3210.6	3185.1	3076.7	2951.0	2817.1	2753.4	2774.3	2816.2	3206.1	3390.0	2538.4
32.5°	3856.4	3802.6	3646.0	3406.4	3224.3	3048.5	3043.0	3087.7	3378.2	3676.0	2658.7
35°	4567.7	4551.3	4320.9	4074.1	3721.6	3450.2	3454.7	3478.4	3707.9	4051.3	2816.2
37.5°	5040.4	5130.6	4984.0	4718.9	4422.9	4034.9	3936.5	3944.7	4160.6	4495.8	3100.4
40°	5405.7	5329.2	5346.5	5284.5	5082.3	4818.2	4600.5	4557.7	4684.3	4987.6	3382.8
42.5°	5246.3	5249.9	5356.5	5503.1	5553.2	5534.1	5311.9	5230.8	5132.4	5390.2	3651.4
45°	4796.3	4890.1	5028.6	5416.6	5757.2	6076.9	6033.2	5898.4	5442.1	5709.0	3806.3
47.5°	4078.6	4075.0	4301.8	4806.4	5563.2	6311.9	6510.5	6415.8	5661.6	5673.4	3774.4
48°	3813.6	3879.1	4113.2	4707.1	5440.3	6277.3	6553.3	6434.0	5624.3	5626.1	3747.1
50°	2819.0	2807.1	3098.6	3827.2	4859.2	5898.4	6373.0	6465.9	5623.4	5386.5	3555.8
52.5°	1489.2	1540.2	1752.4	2406.4	3435.6	4827.3	5621.5	5766.4	5424.8	4994.9	3280.7
55°	633.0	572.0	735.0	1086.6	1932.7	3225.2	4124.2	4446.6	4586.8	4420.2	2870.0
57.5°	225.9	246.8	284.2	409.0	812.4	1765.2	2459.2	2709.7	3177.8	3243.4	1955.5
60°	144.8	147.6	159.4	187.6	305.1	680.4	1166.8	1366.2	1578.4	1629.4	912.6
62.5°	112.0	112.9	118.4	123.0	144.8	264.1	438.1	519.2	539.2	463.6	239.5
65°	93.8	94.7	96.5	96.5	102.9	123.9	153.0	168.5	163.9	162.1	135.7
67.5°	72.0	73.8	77.4	77.4	81.1	75.6	84.7	90.2	102.0	123.9	115.7
70°	56.5	57.4	60.1	61.9	61.9	54.6	61.0	66.5	74.7	92.0	91.1
72.5°	43.7	45.5	47.4	47.4	44.6	37.3	43.7	48.3	53.7	63.8	61.9
75°	33.7	33.7	34.6	28.2	21.9	19.1	26.4	31.9	40.1	41.9	34.6
77.5°	9.1	10.0	9.1	8.2	9.1	13.7	17.3	20.0	25.5	25.5	22.8
80°	0.0	0.9	2.7	5.5	9.1	12.8	15.5	17.3	20.0	21.9	20.9
82.5°	0.0	0.9	2.7	5.5	8.2	10.0	13.7	14.6	16.4	19.1	19.1
85°	0.0	0.9	1.8	3.6	5.5	6.4	6.4	5.5	5.5	4.6	3.6
87.5°	0.0	0.0	0.9	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7
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: P527005

CATALOG NUMBER: GALN-SA2A-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3
2.5°	1813.4	1785.2	1742.4	1675.0	1610.3	1568.4	1528.3	1483.7	1459.1	1457.3	1443.6
5°	1835.3	1771.5	1669.5	1553.8	1430.0	1323.4	1215.9	1145.8	1083.0	1048.3	1042.0
7.5°	1847.1	1764.2	1599.4	1405.4	1194.1	1020.1	899.9	811.5	776.9	751.4	750.5
10°	1871.7	1751.5	1494.6	1208.6	947.2	771.5	688.6	648.5	629.4	622.1	611.2
12.5°	1889.9	1727.8	1387.2	1006.4	748.7	639.4	603.0	593.8	594.8	598.4	593.8
15°	1915.4	1706.9	1242.3	826.1	628.5	575.6	575.6	577.5	590.2	592.0	591.1
17.5°	1913.6	1665.9	1093.0	680.4	555.6	548.3	551.0	568.3	576.5	579.3	572.9
20°	1935.5	1627.6	939.0	581.1	514.6	525.5	543.8	548.3	558.3	560.1	552.9
22.5°	1929.1	1532.0	796.0	502.8	483.6	504.6	522.8	528.3	525.5	520.1	519.2
25°	1917.3	1450.0	664.9	450.9	460.9	483.6	500.9	490.9	485.5	486.4	487.3
27.5°	1896.3	1346.2	556.5	414.4	429.9	463.6	462.7	459.0	464.5	460.0	464.5
30°	1892.7	1242.3	467.2	381.6	407.1	431.7	433.5	439.9	446.3	438.1	446.3
32.5°	1898.1	1128.5	403.5	361.6	393.5	394.4	414.4	420.8	416.2	398.0	399.8
35°	1940.0	1041.1	357.0	350.7	371.6	372.5	391.6	383.5	363.4	352.5	358.9
37.5°	2028.4	968.2	335.2	340.6	342.5	354.3	355.2	338.8	340.6	339.7	343.4
40°	2141.3	912.6	319.7	331.5	329.7	337.9	305.1	314.2	322.4	325.2	327.0
42.5°	2218.7	872.6	309.7	317.0	313.3	298.7	280.5	289.6	296.0	306.0	307.9
45°	2253.3	840.7	297.8	291.5	291.5	265.0	257.8	259.6	274.2	285.1	283.3
47.5°	2196.9	809.7	276.9	257.8	264.1	242.3	234.1	234.1	249.6	263.2	260.5
48°	2175.0	797.0	277.8	250.5	255.0	238.6	230.4	228.6	245.9	258.7	258.7
50°	2066.6	749.6	254.1	230.4	221.3	219.5	214.0	215.9	226.8	238.6	238.6
52.5°	1855.3	647.6	215.0	197.6	181.3	192.2	194.9	191.3	196.7	207.7	206.8
55°	1548.4	497.3	172.1	163.9	151.2	163.0	168.5	163.9	158.5	166.7	166.7
57.5°	991.9	267.8	137.5	139.4	126.6	138.4	143.0	132.1	122.0	128.4	127.5
60°	447.2	160.3	112.9	110.2	102.0	115.7	123.0	110.2	96.5	101.1	105.7
62.5°	167.6	113.9	85.6	83.8	82.0	94.7	98.4	88.3	74.7	77.4	78.3
65°	123.0	100.2	68.3	61.9	65.6	74.7	72.9	62.8	53.7	53.7	55.6
67.5°	104.7	87.4	55.6	48.3	48.3	49.2	45.5	40.1	37.3	39.2	41.0
70°	82.0	69.2	43.7	37.3	33.7	30.1	26.4	25.5	22.8	25.5	24.6
72.5°	52.8	46.5	33.7	28.2	25.5	20.9	17.3	16.4	13.7	12.8	12.8
75°	28.2	28.2	26.4	22.8	20.0	16.4	13.7	10.9	7.3	5.5	5.5
77.5°	20.0	21.9	23.7	21.9	18.2	13.7	10.9	7.3	3.6	1.8	1.8
80°	19.1	21.9	23.7	20.9	18.2	13.7	10.0	5.5	2.7	0.9	0.9
82.5°	17.3	20.0	21.9	19.1	16.4	11.8	9.1	5.5	2.7	0.9	0.9
85°	3.6	4.6	5.5	5.5	6.4	8.2	6.4	4.6	1.8	0.9	0.9
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8	0.9	0.9	0.9
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)