

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: P527031

Luminaire Tested: **GALN-SA2A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527031
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-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 6391 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

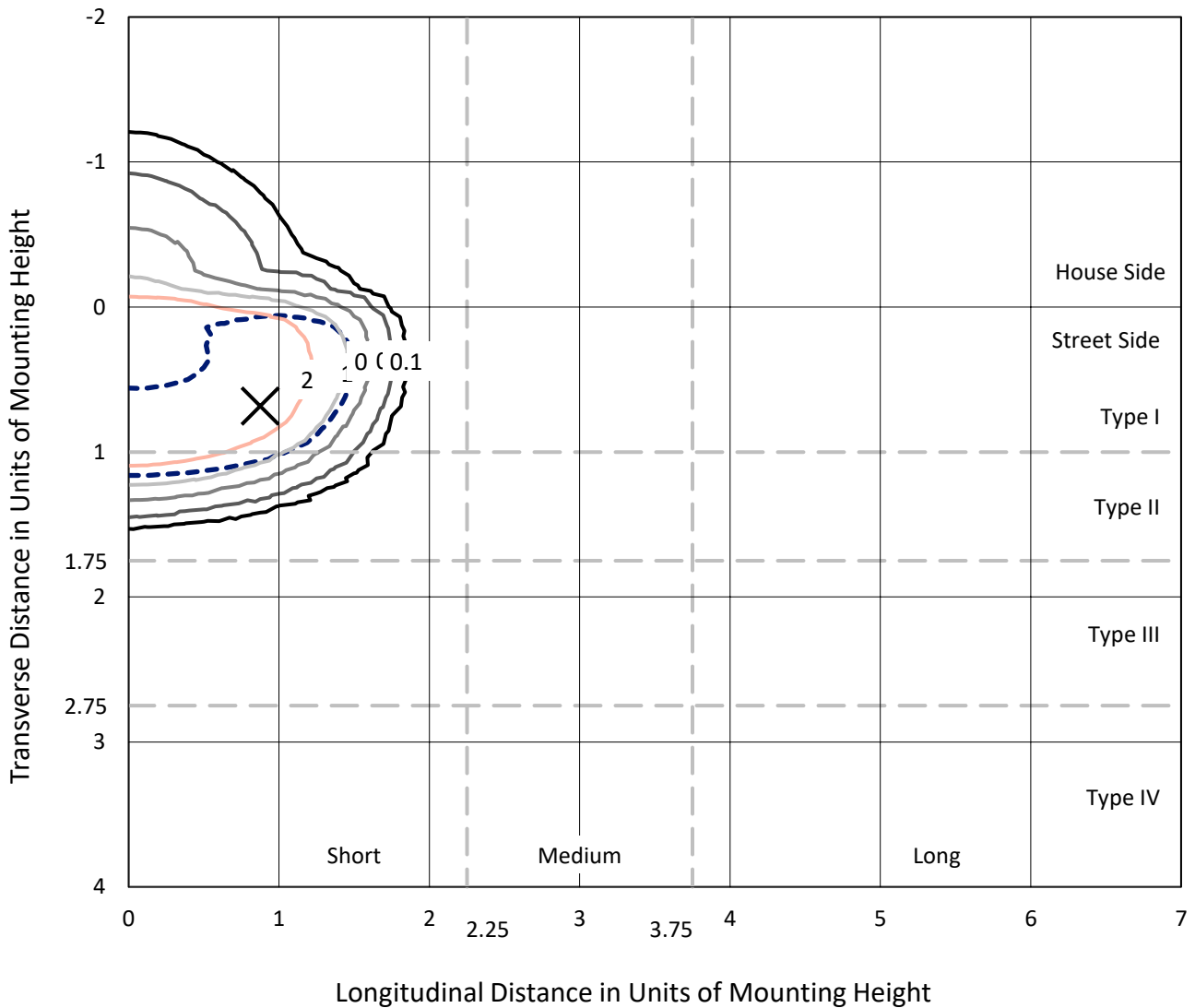
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527031
 CATALOG NUMBER: GALN-SA2A-735-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

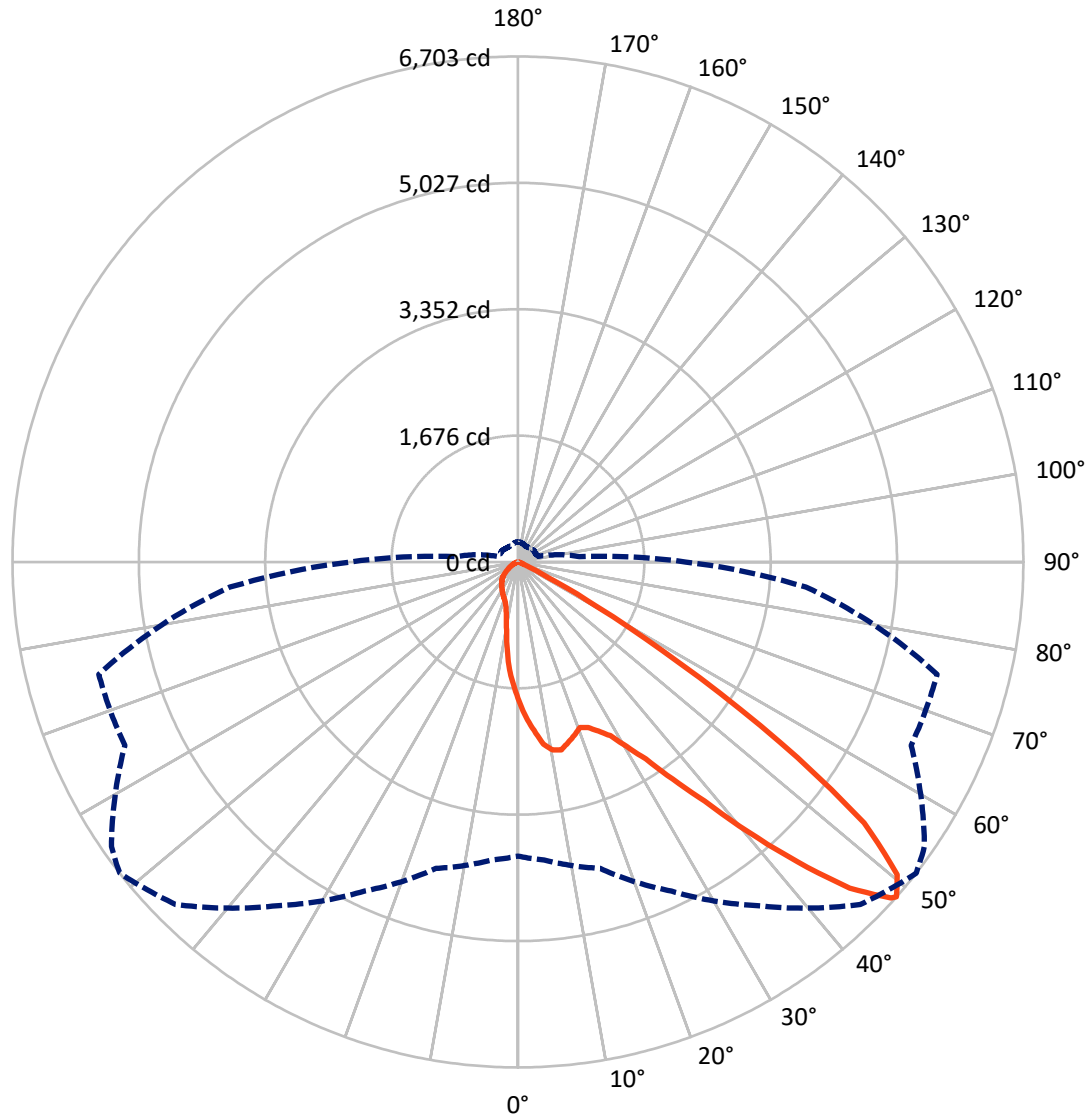
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P527031
CATALOG NUMBER: GALN-SA2A-735-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P527031

CATALOG NUMBER: GALN-SA2A-735-U-AFL-GRSBK

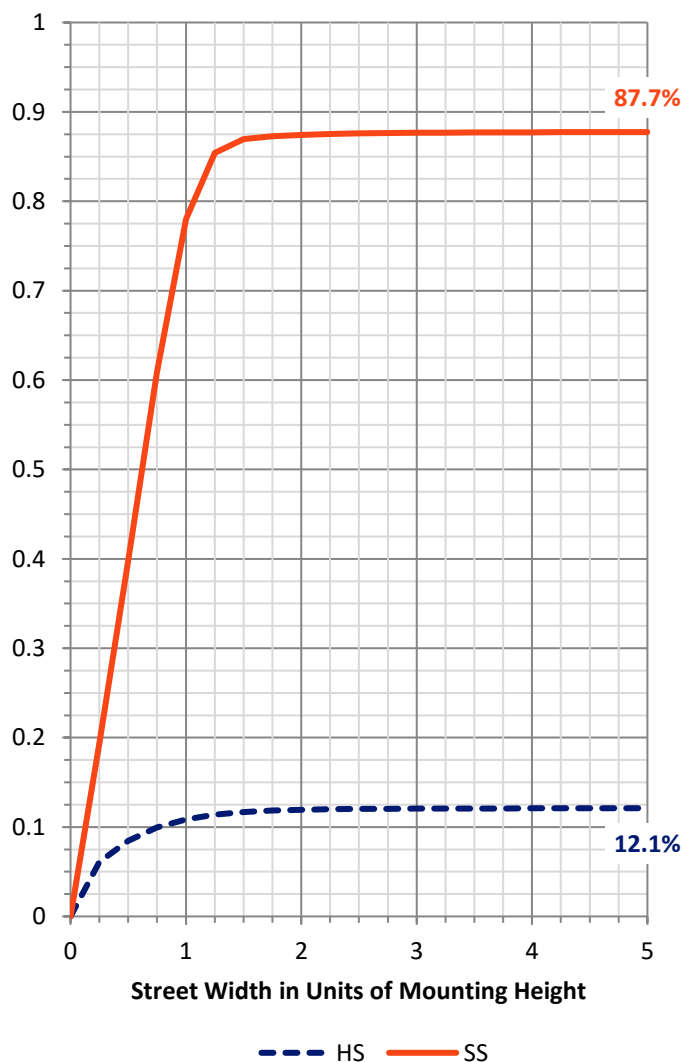
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.2	0.0	778.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5612.8	0.0	5612.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	6391.0	0.0	6391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	2.6
10°-20°	441.5	6.9
20°-30°	753.8	11.8
30°-40°	1388.1	21.7
40°-50°	2155.6	33.7
50°-60°	1297.3	20.3
60°-70°	150.0	2.3
70°-80°	29.1	0.5
80°-90°	6.7	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°	6391.0	100.0
0°-180°	6391.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527031

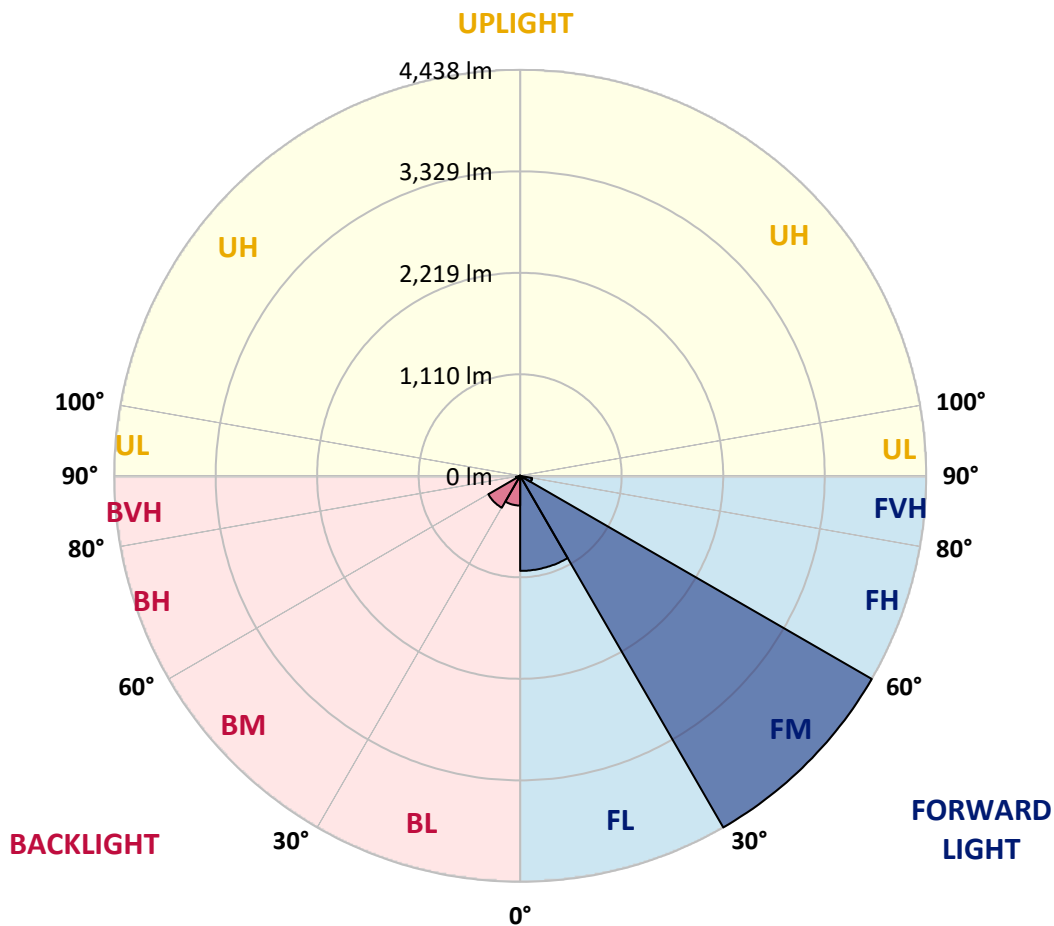
CATALOG NUMBER: GALN-SA2A-735-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.1	16.3			
FM (30°-60°)	4438.4	69.4			
FH (60°-80°)	132.1	2.1			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	325.1	5.1	B1/500		
BM (30°-60°)	402.6	6.3	B1/1000		
BH (60°-80°)	47.0	0.7	B0/110		G0/110
BVH (80°-90°)	3.5	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: P527031

CATALOG NUMBER: GALN-SA2A-735-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	2236.9	2185.7	2190.3	2156.8	2137.2	2105.5	2062.7	2054.3	2007.7	1944.4	1880.1
5°	2438.1	2426.0	2441.9	2393.4	2395.3	2343.1	2242.5	2244.4	2137.2	2033.8	1934.1
7.5°	2451.2	2423.2	2439.1	2481.9	2507.1	2497.8	2440.9	2391.6	2290.0	2138.2	1992.8
10°	2195.0	2248.1	2264.9	2335.7	2436.3	2542.5	2536.0	2538.8	2454.0	2255.5	2043.1
12.5°	2041.3	2005.9	2062.7	2105.5	2257.4	2463.3	2557.4	2577.9	2584.4	2369.2	2093.4
15°	1971.4	1971.4	1980.7	1992.8	2102.8	2292.8	2484.7	2544.4	2685.0	2518.3	2172.6
17.5°	2015.2	2013.3	2026.4	2001.2	2042.2	2188.5	2417.7	2485.7	2797.8	2664.5	2235.0
20°	2148.4	2154.9	2146.5	2073.9	2076.7	2186.6	2343.1	2450.3	2874.2	2791.2	2318.0
22.5°	2333.8	2337.5	2290.0	2210.8	2187.5	2241.6	2386.0	2468.0	2935.7	2943.1	2343.1
25°	2548.1	2533.2	2523.9	2412.1	2341.3	2387.8	2482.9	2530.4	2973.9	3073.5	2414.9
27.5°	2845.3	2815.5	2758.6	2659.0	2606.8	2540.6	2608.6	2686.9	3082.9	3256.1	2493.1
30°	3284.1	3258.0	3147.1	3018.6	2881.6	2816.4	2837.8	2880.7	3279.4	3467.6	2596.5
32.5°	3944.6	3889.7	3729.4	3484.4	3298.1	3118.3	3112.7	3158.3	3455.5	3760.2	2719.5
35°	4672.3	4655.5	4419.8	4167.3	3806.8	3529.1	3533.8	3558.0	3792.8	4144.0	2880.7
37.5°	5155.8	5248.0	5098.0	4826.9	4524.1	4127.2	4026.6	4035.0	4255.8	4598.7	3171.4
40°	5529.4	5451.1	5468.8	5405.5	5198.7	4928.5	4705.8	4662.0	4791.5	5101.8	3460.2
42.5°	5366.4	5370.1	5479.1	5629.1	5680.3	5660.8	5433.4	5350.5	5249.9	5513.6	3735.0
45°	4906.1	5002.1	5143.7	5540.6	5889.0	6216.0	6171.3	6033.4	5566.7	5839.6	3893.4
47.5°	4172.0	4168.2	4400.2	4916.4	5690.6	6456.4	6659.5	6562.6	5791.2	5803.3	3860.8
48°	3900.9	3967.9	4207.4	4814.8	5564.8	6421.0	6703.3	6581.2	5753.0	5754.9	3832.8
50°	2883.5	2871.4	3169.5	3914.8	4970.4	6033.4	6518.8	6613.8	5752.1	5509.8	3637.2
52.5°	1523.3	1575.4	1792.5	2461.4	3514.2	4937.8	5750.2	5898.3	5549.0	5109.2	3355.8
55°	647.5	585.1	751.8	1111.5	1977.0	3299.0	4218.5	4548.4	4691.8	4521.3	2935.7
57.5°	231.1	252.5	290.7	418.3	831.0	1805.6	2515.5	2771.7	3250.6	3317.6	2000.3
60°	148.1	150.9	163.0	191.9	312.1	695.9	1193.5	1397.5	1614.6	1666.7	933.5
62.5°	114.6	115.5	121.1	125.8	148.1	270.2	448.1	531.0	551.5	474.2	245.0
65°	96.0	96.9	98.8	98.8	105.3	126.7	156.5	172.4	167.7	165.8	138.8
67.5°	73.6	75.5	79.2	79.2	82.9	77.3	86.6	92.2	104.3	126.7	118.3
70°	57.8	58.7	61.5	63.4	63.4	55.9	62.4	68.0	76.4	94.1	93.2
72.5°	44.7	46.6	48.4	48.4	45.7	38.2	44.7	49.4	55.0	65.2	63.4
75°	34.5	34.5	35.4	28.9	22.4	19.6	27.0	32.6	41.0	42.9	35.4
77.5°	9.3	10.2	9.3	8.4	9.3	14.0	17.7	20.5	26.1	26.1	23.3
80°	0.0	0.9	2.8	5.6	9.3	13.0	15.8	17.7	20.5	22.4	21.4
82.5°	0.0	0.9	2.8	5.6	8.4	10.2	14.0	14.9	16.8	19.6	19.6
85°	0.0	0.9	1.9	3.7	5.6	6.5	6.5	5.6	5.6	4.7	3.7
87.5°	0.0	0.0	0.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8
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: P527031

CATALOG NUMBER: GALN-SA2A-735-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6	1845.6
2.5°	1854.9	1826.0	1782.3	1713.3	1647.2	1604.3	1563.3	1517.7	1492.5	1490.7	1476.7
5°	1877.3	1812.1	1707.7	1589.4	1462.7	1353.7	1243.8	1172.0	1107.7	1072.3	1065.8
7.5°	1889.4	1804.6	1636.0	1437.5	1221.4	1043.5	920.5	830.1	794.7	768.6	767.7
10°	1914.6	1791.6	1528.9	1236.3	968.9	789.1	704.3	663.3	643.8	636.3	625.1
12.5°	1933.2	1767.4	1418.9	1029.5	765.8	654.0	616.8	607.4	608.4	612.1	607.4
15°	1959.3	1745.9	1270.8	845.0	642.8	588.8	588.8	590.7	603.7	605.6	604.6
17.5°	1957.4	1704.0	1118.0	695.9	568.3	560.9	563.7	581.4	589.7	592.5	586.0
20°	1979.8	1664.9	960.5	594.4	526.4	537.6	556.2	560.9	571.1	573.0	565.5
22.5°	1973.3	1567.0	814.3	514.3	494.7	516.1	534.8	540.4	537.6	532.0	531.0
25°	1961.1	1483.2	680.1	461.2	471.4	494.7	512.4	502.2	496.6	497.5	498.4
27.5°	1939.7	1377.0	569.2	423.9	439.7	474.2	473.3	469.6	475.1	470.5	475.1
30°	1936.0	1270.8	477.9	390.4	416.5	441.6	443.5	450.0	456.5	448.1	456.5
32.5°	1941.6	1154.3	412.7	369.9	402.5	403.4	423.9	430.4	425.8	407.1	409.0
35°	1984.4	1064.9	365.2	358.7	380.1	381.0	400.6	392.2	371.7	360.6	367.1
37.5°	2074.8	990.4	342.9	348.4	350.3	362.4	363.3	346.6	348.4	347.5	351.2
40°	2190.3	933.5	327.0	339.1	337.3	345.6	312.1	321.4	329.8	332.6	334.5
42.5°	2269.5	892.5	316.8	324.2	320.5	305.6	287.0	296.3	302.8	313.0	314.9
45°	2304.9	859.9	304.7	298.1	298.1	271.1	263.7	265.5	280.4	291.6	289.7
47.5°	2247.2	828.2	283.2	263.7	270.2	247.8	239.4	239.4	255.3	269.2	266.5
48°	2224.8	815.2	284.2	256.2	260.9	244.1	235.7	233.8	251.5	264.6	264.6
50°	2113.9	766.8	259.9	235.7	226.4	224.5	218.9	220.8	232.0	244.1	244.1
52.5°	1897.8	662.4	219.9	202.2	185.4	196.6	199.4	195.6	201.2	212.4	211.5
55°	1583.8	508.7	176.1	167.7	154.7	166.8	172.4	167.7	162.1	170.5	170.5
57.5°	1014.6	273.9	140.7	142.5	129.5	141.6	146.3	135.1	124.8	131.4	130.4
60°	457.4	164.0	115.5	112.7	104.3	118.3	125.8	112.7	98.8	103.4	108.1
62.5°	171.4	116.5	87.6	85.7	83.8	96.9	100.6	90.4	76.4	79.2	80.1
65°	125.8	102.5	69.9	63.4	67.1	76.4	74.5	64.3	55.0	55.0	56.8
67.5°	107.1	89.4	56.8	49.4	49.4	50.3	46.6	41.0	38.2	40.1	41.9
70°	83.8	70.8	44.7	38.2	34.5	30.7	27.0	26.1	23.3	26.1	25.2
72.5°	54.0	47.5	34.5	28.9	26.1	21.4	17.7	16.8	14.0	13.0	13.0
75°	28.9	28.9	27.0	23.3	20.5	16.8	14.0	11.2	7.5	5.6	5.6
77.5°	20.5	22.4	24.2	22.4	18.6	14.0	11.2	7.5	3.7	1.9	1.9
80°	19.6	22.4	24.2	21.4	18.6	14.0	10.2	5.6	2.8	0.9	0.9
82.5°	17.7	20.5	22.4	19.6	16.8	12.1	9.3	5.6	2.8	0.9	0.9
85°	3.7	4.7	5.6	5.6	6.5	8.4	6.5	4.7	1.9	0.9	0.9
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9	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)