

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: P528919

Luminaire Tested: **GALN-SA4A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10064 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

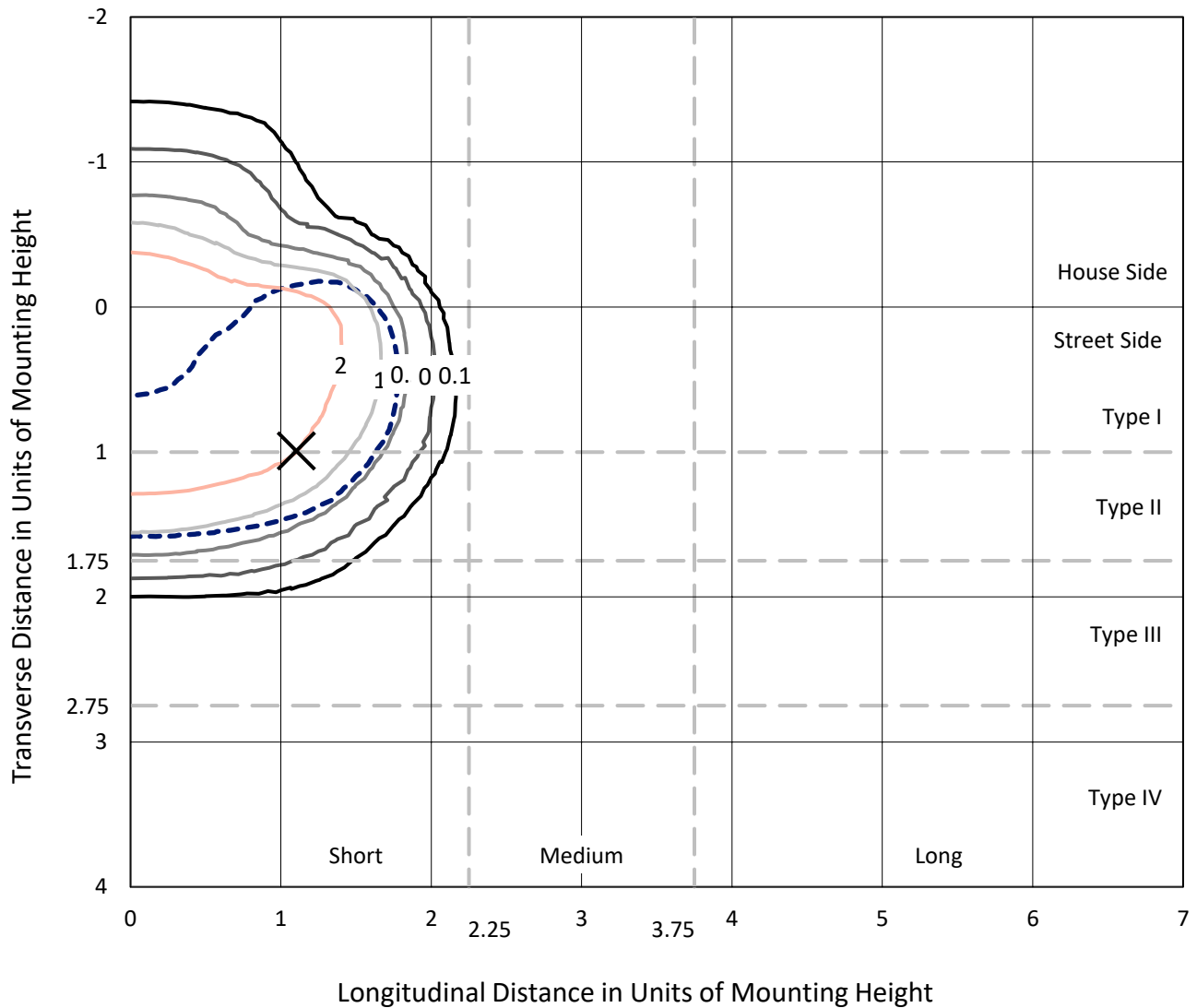
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528919
 CATALOG NUMBER: GALN-SA4A-735-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

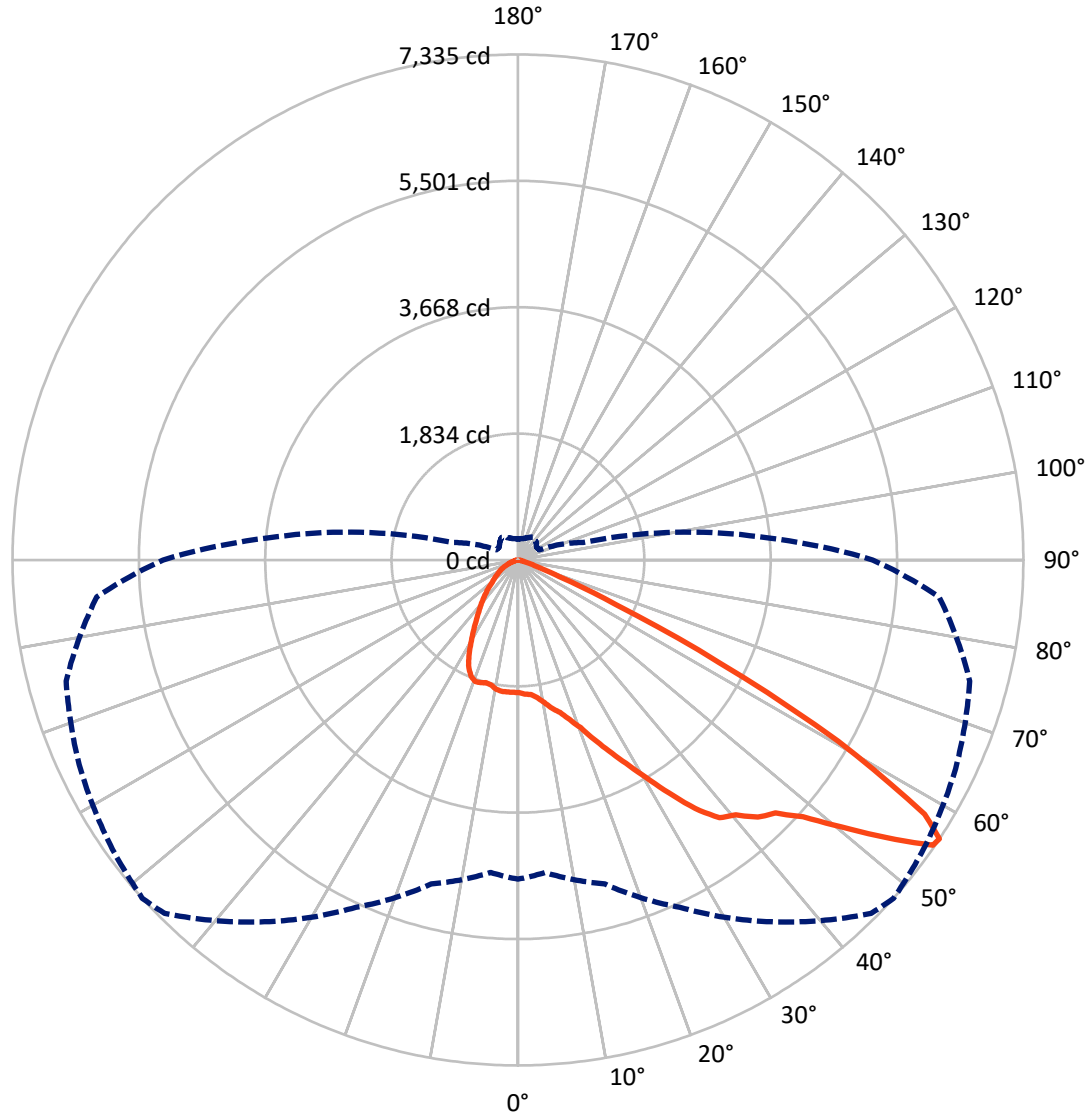
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P528919
CATALOG NUMBER: GALN-SA4A-735-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P528919
 CATALOG NUMBER: GALN-SA4A-735-U-T3-GRSBK

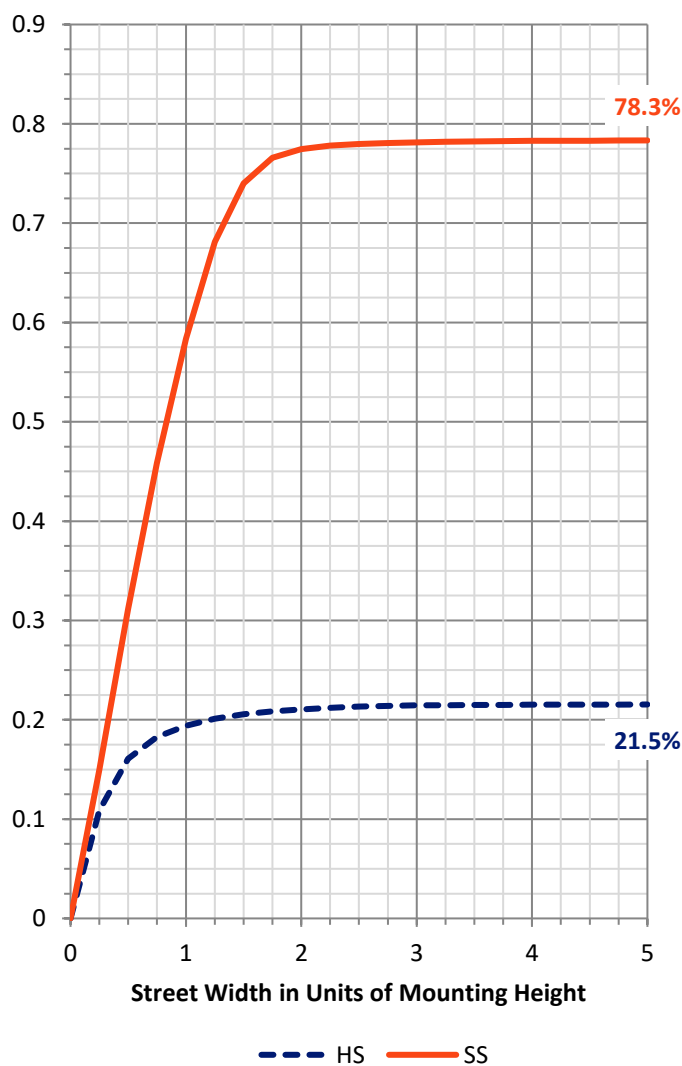
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2188.7	0.0	2188.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7875.3	0.0	7875.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	10064.0	0.0	10064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.9
10°-20°	598.4	5.9
20°-30°	1085.4	10.8
30°-40°	1704.9	16.9
40°-50°	2487.2	24.7
50°-60°	2996.6	29.8
60°-70°	877.4	8.7
70°-80°	111.3	1.1
80°-90°	15.6	0.2
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°	10064.0	100.0
0°-180°	10064.0	100.0

Coefficient of Utilization

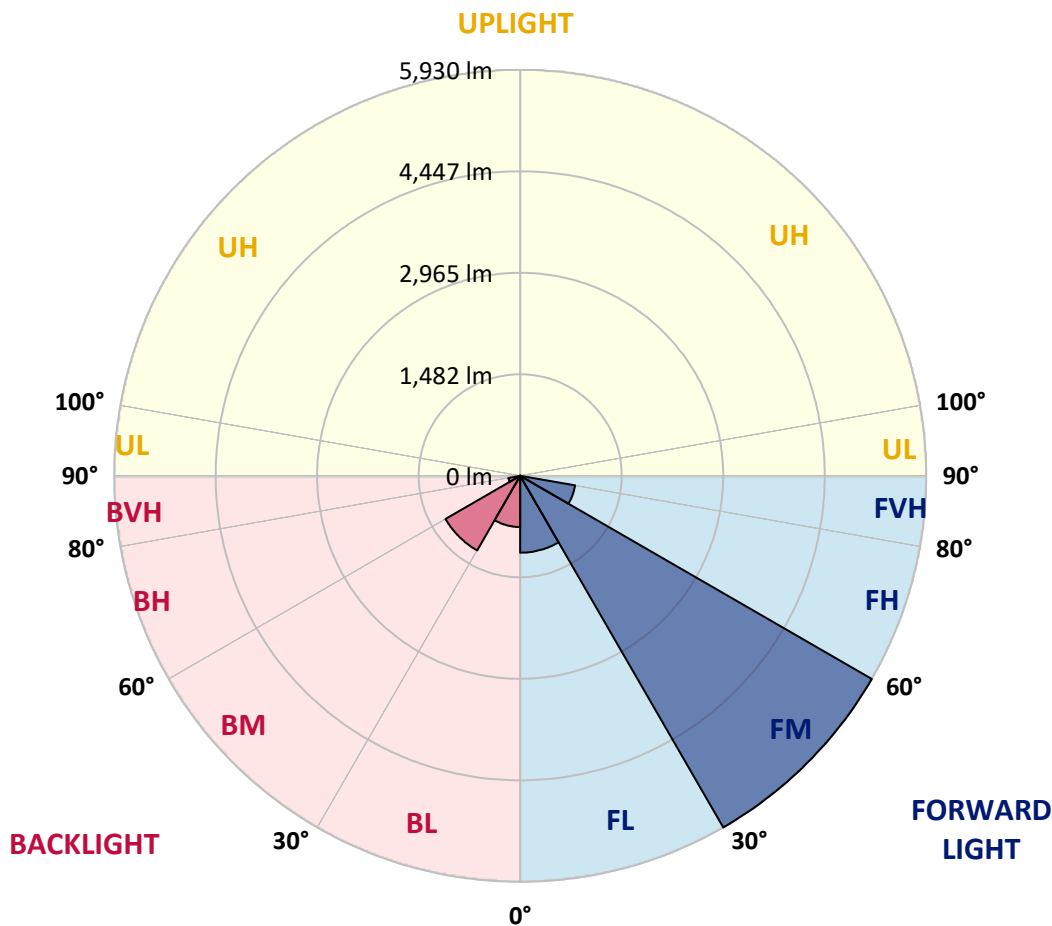


REPORT NUMBER: P528919
 CATALOG NUMBER: GALN-SA4A-735-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.9	11.2			
FM (30°-60°)	5929.7	58.9			
FH (60°-80°)	814.8	8.1			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	748.1	7.4	B2/1000		
BM (30°-60°)	1258.9	12.5	B2/2500		
BH (60°-80°)	173.9	1.7	B1/500		G1/500
BVH (80°-90°)	7.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P528919

CATALOG NUMBER: GALN-SA4A-735-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2
2.5°	1957.0	1947.9	1947.9	1933.2	1949.7	1942.4	1947.9	1929.6	1947.9	1920.4	1942.4
5°	1966.2	1968.0	1960.7	1969.9	1969.9	1980.9	1962.5	1979.0	1988.2	1968.0	1958.9
7.5°	2013.9	2017.5	2015.7	2008.4	2023.0	2021.2	2019.3	2006.5	2010.2	2002.9	1991.9
10°	2107.3	2105.5	2114.6	2096.3	2085.3	2098.1	2101.8	2081.7	2067.0	2061.5	2026.7
12.5°	2242.9	2220.9	2208.1	2189.8	2195.3	2176.9	2209.9	2175.1	2167.8	2134.8	2100.0
15°	2352.9	2349.2	2351.0	2321.7	2288.7	2296.0	2296.0	2277.7	2266.7	2226.4	2176.9
17.5°	2578.2	2501.3	2517.8	2481.1	2453.6	2451.8	2435.3	2439.0	2409.7	2325.4	2250.2
20°	2754.2	2721.2	2695.5	2633.2	2591.1	2603.9	2596.6	2578.2	2569.1	2459.1	2352.9
22.5°	2911.7	2922.7	2880.6	2864.1	2805.5	2811.0	2825.6	2809.1	2739.5	2625.9	2468.3
25°	3133.5	3120.6	3063.8	3043.7	2988.7	3008.9	3065.7	3052.8	3008.9	2803.6	2558.1
27.5°	3395.5	3351.5	3362.5	3270.9	3217.8	3274.6	3342.4	3406.5	3281.9	3012.5	2664.4
30°	3580.6	3534.8	3531.1	3527.4	3514.6	3580.6	3659.4	3718.0	3617.2	3221.4	2840.3
32.5°	3672.2	3683.2	3714.4	3703.4	3815.1	3950.7	4033.2	4117.5	3991.1	3562.3	3073.0
35°	3915.9	3846.3	3915.9	3923.3	4038.7	4326.4	4430.8	4632.4	4601.3	4044.2	3357.0
37.5°	4058.9	4053.4	4062.5	4132.1	4243.9	4599.4	4747.8	4903.6	4845.0	4333.7	3710.7
40°	4295.2	4309.9	4308.1	4361.2	4484.0	4804.7	4865.1	4991.6	4997.1	4735.0	4231.1
42.5°	4674.6	4615.9	4577.4	4632.4	4804.7	4982.4	5103.3	5077.7	5259.1	5222.5	4899.9
45°	5015.4	5050.2	4993.4	5085.0	5147.3	5242.6	5238.9	5293.9	5524.8	5698.9	5403.9
47.5°	5334.2	5356.2	5383.7	5446.0	5581.6	5596.3	5565.1	5541.3	5860.1	6039.7	5794.2
50°	5524.8	5545.0	5673.2	5785.0	6037.9	6070.9	6089.2	6028.7	6245.0	6265.1	6162.5
52.5°	5473.5	5495.5	5675.1	6043.4	6446.5	6748.9	6693.9	6591.3	6578.5	6657.3	6503.3
55°	5019.1	4998.9	5246.3	5819.8	6574.8	7300.4	7307.8	7199.7	6992.6	6939.4	6452.0
56°	4632.4	4553.6	4868.8	5561.5	6409.9	7252.8	7335.3	7219.8	7025.6	6787.4	6135.0
57.5°	3795.0	3870.1	4183.5	4757.0	5840.0	6910.1	6957.8	6930.3	6783.7	6384.2	5398.4
60°	2092.6	2224.6	2501.3	3203.1	4157.8	5303.1	5341.6	5565.1	5592.6	4888.9	3714.4
62.5°	888.7	874.1	1161.8	1678.5	2367.5	3201.3	3272.7	3501.8	3543.9	2818.3	1863.6
65°	361.0	381.1	525.9	844.8	1251.6	1458.6	1559.4	1634.5	1773.8	1163.6	687.2
67.5°	238.2	236.4	309.7	481.9	674.3	650.5	650.5	687.2	635.9	474.6	296.9
70°	170.4	175.9	221.7	333.5	419.6	311.5	298.7	285.9	324.3	313.3	240.0
72.5°	111.8	119.1	148.4	199.7	218.1	170.4	170.4	205.2	267.5	252.9	196.1
75°	73.3	75.1	91.6	115.4	108.1	88.0	97.1	137.4	194.2	186.9	139.3
77.5°	49.5	51.3	62.3	75.1	60.5	49.5	53.1	69.6	95.3	95.3	73.3
80°	18.3	20.2	25.7	23.8	27.5	34.8	38.5	47.6	56.8	56.8	49.5
82.5°	0.0	1.8	5.5	12.8	20.2	27.5	31.2	36.6	42.1	47.6	45.8
85°	0.0	1.8	5.5	9.2	14.7	16.5	18.3	12.8	11.0	11.0	9.2
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.7	1.8	1.8
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: P528919

CATALOG NUMBER: GALN-SA4A-735-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2	1922.2
2.5°	1922.2	1920.4	1920.4	1914.9	1925.9	1920.4	1924.1	1922.2	1898.4	1916.7	1903.9
5°	1942.4	1955.2	1935.1	1931.4	1916.7	1922.2	1922.2	1903.9	1920.4	1918.6	1914.9
7.5°	1993.7	1971.7	1949.7	1927.7	1924.1	1918.6	1898.4	1891.1	1903.9	1889.2	1911.2
10°	2015.7	2019.3	1986.4	1957.0	1929.6	1891.1	1863.6	1847.1	1826.9	1848.9	1861.8
12.5°	2116.5	2079.8	2023.0	1977.2	1883.7	1845.3	1817.8	1810.4	1845.3	1852.6	1839.8
15°	2151.3	2145.8	2072.5	1969.9	1872.8	1826.9	1832.4	1817.8	1821.4	1803.1	1806.8
17.5°	2222.7	2160.4	2074.3	1946.1	1870.9	1859.9	1826.9	1768.3	1735.3	1720.7	1733.5
20°	2301.5	2241.1	2116.5	1955.2	1887.4	1858.1	1750.0	1678.5	1610.7	1574.1	1575.9
22.5°	2371.2	2296.0	2098.1	1958.9	1902.1	1781.1	1651.0	1509.9	1425.6	1368.8	1370.7
25°	2455.5	2349.2	2105.5	1966.2	1863.6	1658.4	1471.4	1334.0	1233.2	1194.8	1207.6
27.5°	2503.1	2382.2	2145.8	1982.7	1762.8	1484.3	1282.7	1154.4	1095.8	1077.5	1075.6
30°	2646.0	2455.5	2195.3	1949.7	1594.2	1297.4	1110.5	1031.7	974.9	958.4	962.0
32.5°	2858.6	2589.2	2259.4	1863.6	1422.0	1130.6	998.7	940.0	886.9	855.7	852.1
35°	3036.4	2818.3	2327.2	1729.8	1222.2	1002.3	919.9	846.6	766.0	731.1	722.0
37.5°	3375.4	3076.7	2312.5	1528.3	1031.7	907.1	835.6	745.8	676.2	628.5	623.0
40°	3826.1	3379.0	2241.1	1282.7	890.6	822.8	745.8	659.7	573.6	533.2	529.6
42.5°	4374.0	3749.2	2111.0	1033.5	749.5	738.5	668.8	569.9	492.9	463.6	465.4
45°	4819.3	4066.2	1979.0	830.1	645.0	656.0	595.5	502.1	448.9	425.1	425.1
47.5°	5215.1	4280.6	1836.1	685.3	547.9	573.6	520.4	465.4	419.6	401.3	397.6
50°	5596.3	4498.6	1693.2	555.2	467.3	492.9	487.4	443.5	406.8	384.8	386.6
52.5°	5834.5	4533.5	1511.8	454.4	408.6	438.0	456.3	416.0	375.6	362.8	359.2
55°	5543.1	4084.5	1172.8	373.8	346.3	384.8	419.6	373.8	342.7	320.7	318.8
56°	5151.0	3652.1	980.4	344.5	328.0	370.2	406.8	357.3	322.5	309.7	300.5
57.5°	4361.2	2988.7	723.8	306.0	304.2	344.5	386.6	340.8	300.5	289.5	289.5
60°	2719.3	1682.2	438.0	256.5	263.9	306.0	348.2	304.2	267.5	267.5	273.0
62.5°	1238.7	700.0	265.7	218.1	227.2	263.9	309.7	274.9	254.7	274.9	278.5
65°	421.5	302.4	192.4	174.1	179.6	218.1	265.7	278.5	276.7	289.5	296.9
67.5°	236.4	194.2	161.3	144.8	141.1	161.3	218.1	278.5	267.5	262.0	265.7
70°	199.7	164.9	142.9	128.3	122.8	130.1	168.6	210.7	188.7	183.2	179.6
72.5°	161.3	137.4	124.6	115.4	99.0	84.3	77.0	80.6	89.8	95.3	104.4
75°	113.6	104.4	104.4	93.5	71.5	53.1	42.1	34.8	23.8	16.5	18.3
77.5°	64.1	64.1	66.0	56.8	45.8	34.8	25.7	18.3	9.2	3.7	1.8
80°	44.0	47.6	51.3	45.8	38.5	31.2	22.0	12.8	5.5	0.0	0.0
82.5°	44.0	49.5	53.1	45.8	38.5	29.3	22.0	12.8	5.5	1.8	0.0
85°	9.2	11.0	12.8	14.7	22.0	22.0	16.5	11.0	5.5	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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)