

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: P529149

Luminaire Tested: **GALN-SA4B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12370 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

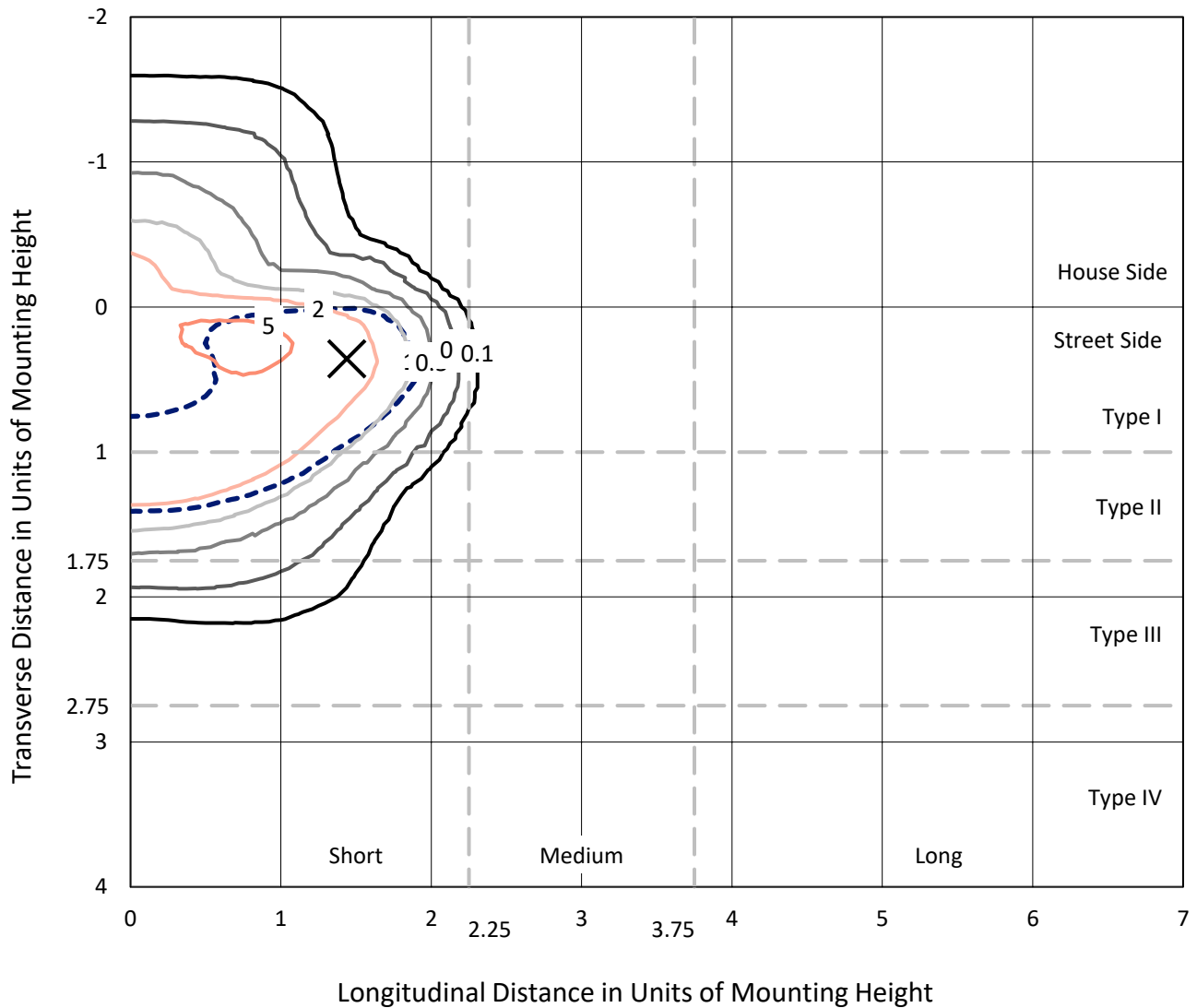
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529149
 CATALOG NUMBER: GALN-SA4B-735-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

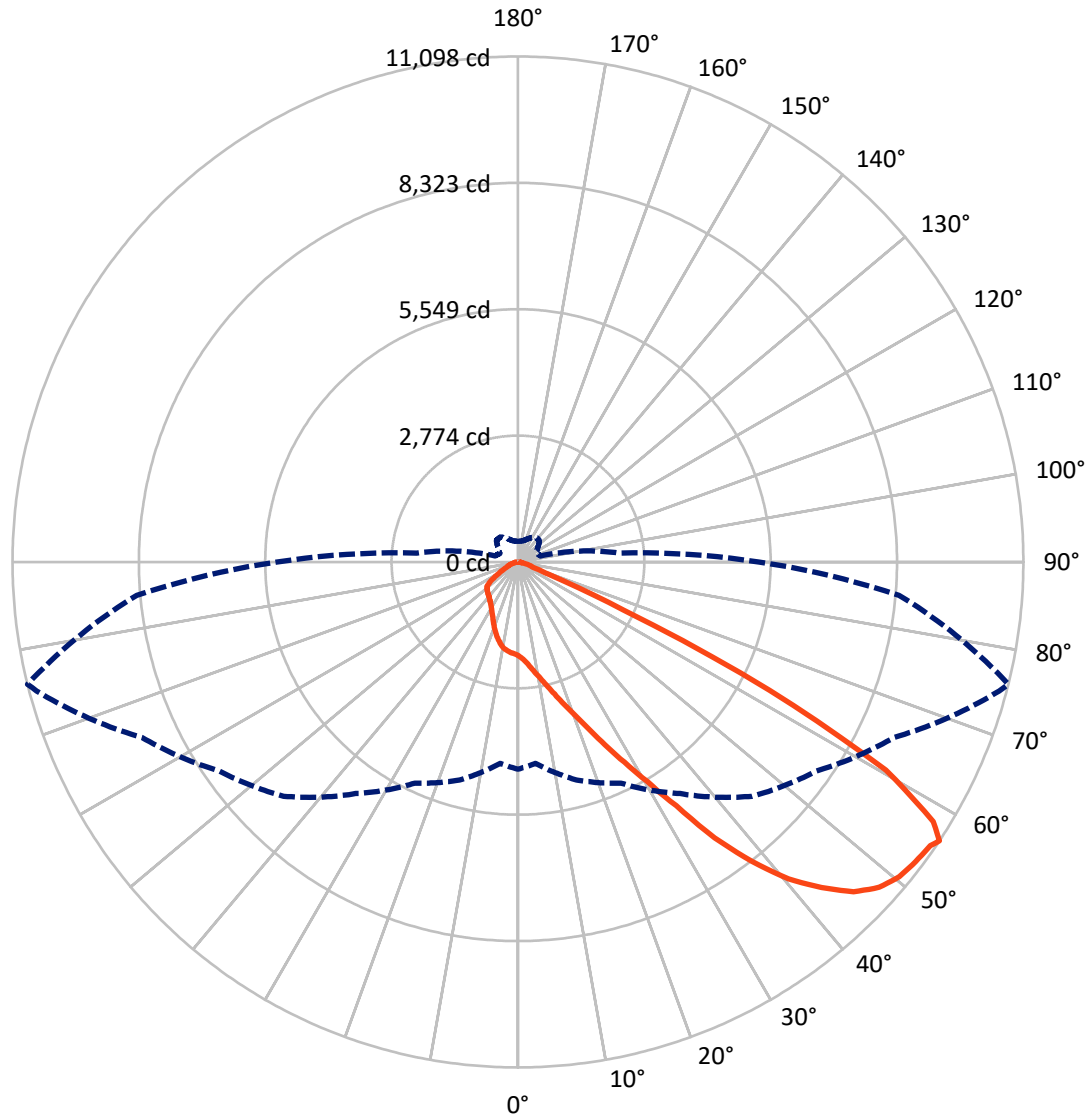
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P529149
CATALOG NUMBER: GALN-SA4B-735-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529149
 CATALOG NUMBER: GALN-SA4B-735-U-T2-GRSBK

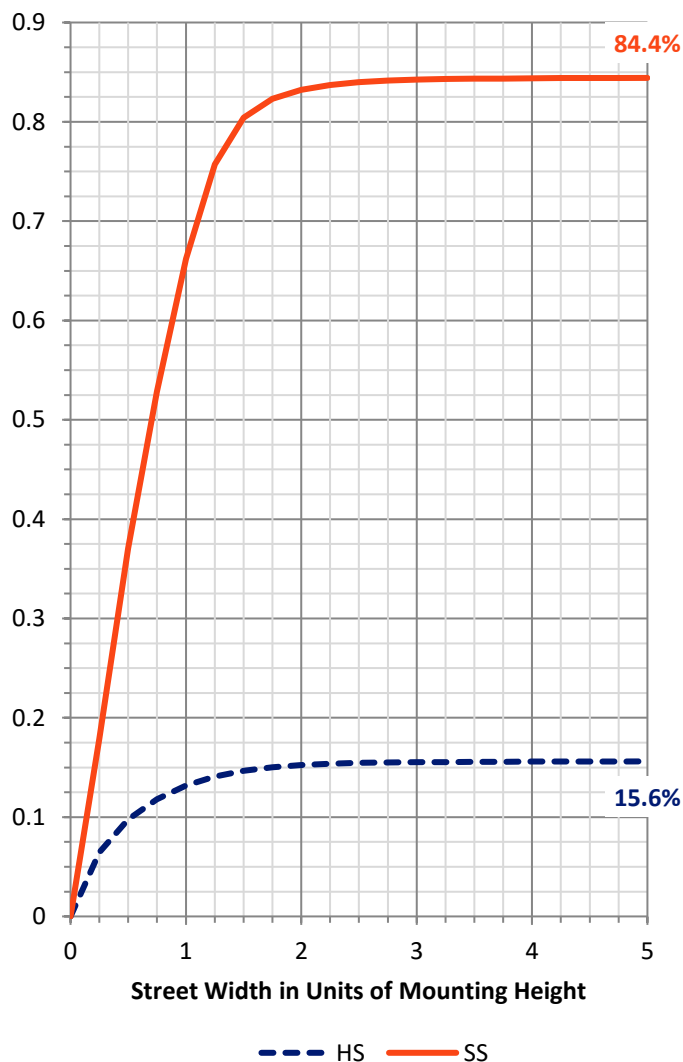
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.3	0.0	1943.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10426.7	0.0	10426.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	12370.0	0.0	12370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	1.7
10°-20°	666.4	5.4
20°-30°	1208.3	9.8
30°-40°	2083.7	16.8
40°-50°	3385.1	27.4
50°-60°	3568.0	28.8
60°-70°	1090.2	8.8
70°-80°	139.7	1.1
80°-90°	21.2	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°	12370.0	100.0
0°-180°	12370.0	100.0

Coefficient of Utilization



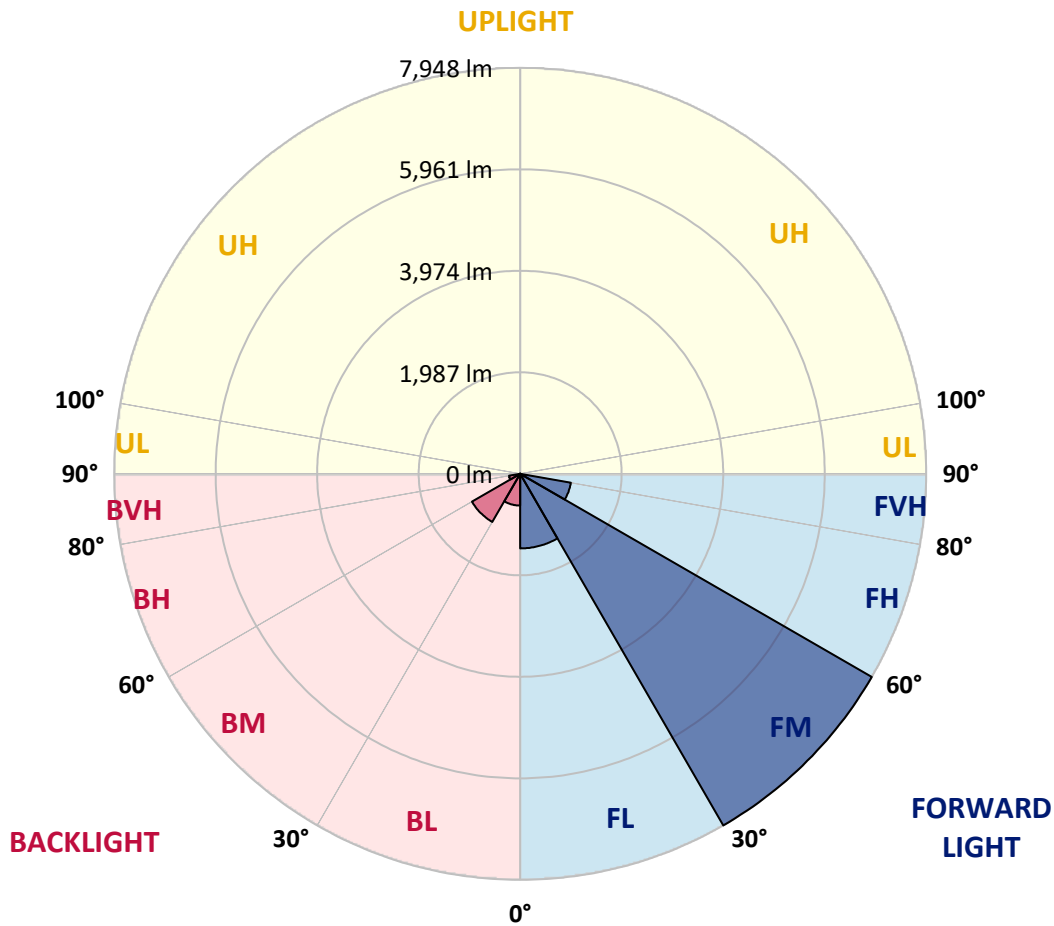
REPORT NUMBER: P529149
 CATALOG NUMBER: GALN-SA4B-735-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1460.4	11.8			
FM (30°-60°)	7947.7	64.2			
FH (60°-80°)	1008.2	8.2			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	621.7	5.0	B2/1000		
BM (30°-60°)	1089.1	8.8	B2/2500		
BH (60°-80°)	221.7	1.8	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
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: P529149

CATALOG NUMBER: GALN-SA4B-735-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0
2.5°	2371.4	2316.7	2318.9	2314.4	2307.5	2282.5	2207.2	2195.8	2145.7	2132.0	2086.4
5°	2656.4	2608.5	2635.9	2594.8	2556.1	2533.3	2410.2	2353.1	2273.3	2243.7	2179.9
7.5°	2834.3	2811.5	2802.3	2804.6	2768.1	2711.1	2656.4	2531.0	2423.8	2401.0	2266.5
10°	2920.9	2907.2	2920.9	2914.1	2930.0	2936.9	2841.1	2765.9	2608.5	2569.8	2360.0
12.5°	2941.4	2968.8	2980.2	3009.8	3048.6	3114.7	3107.9	3005.3	2795.5	2770.4	2503.6
15°	2991.6	3014.4	3003.0	3050.9	3123.9	3235.6	3294.9	3278.9	3053.2	3007.6	2670.1
17.5°	3037.2	2996.2	3034.9	3130.7	3203.7	3374.7	3518.3	3584.4	3333.6	3281.2	2822.9
20°	3098.8	3087.4	3080.5	3128.4	3258.4	3486.4	3771.4	3892.3	3648.3	3593.6	3041.8
22.5°	3285.7	3288.0	3283.5	3212.8	3306.3	3563.9	3992.6	4291.3	4024.5	3978.9	3290.3
25°	3532.0	3502.4	3479.6	3422.6	3411.2	3634.6	4216.1	4779.3	4476.0	4444.1	3559.4
27.5°	3791.9	3791.9	3723.5	3671.1	3598.1	3810.2	4421.3	5253.5	5021.0	4977.6	3794.2
30°	4074.7	4090.6	4081.5	3969.8	3924.2	4001.7	4631.1	5860.1	5645.7	5591.0	4181.9
32.5°	4492.0	4457.8	4496.5	4403.0	4268.5	4336.9	4961.7	6402.8	6457.5	6380.0	4690.3
35°	5043.8	5023.2	4998.2	4845.4	4685.8	4740.5	5429.1	7070.8	7476.7	7438.0	5203.4
37.5°	5538.6	5527.2	5506.6	5401.8	5217.1	5283.2	5960.4	7766.3	8470.9	8343.2	5928.5
40°	6058.4	6120.0	6053.9	5960.4	5791.7	5937.6	6585.2	8179.0	9307.7	9152.7	6482.6
42.5°	6763.0	6715.1	6744.8	6573.8	6482.6	6642.2	7212.2	8591.7	9957.6	9772.9	7070.8
45°	7513.2	7515.5	7435.7	7381.0	7143.8	7317.1	7597.6	8819.7	10475.2	10331.5	7515.5
47.5°	7994.3	7992.0	8078.7	8165.3	7921.4	7750.3	7859.8	9036.4	10741.9	10675.8	7677.4
50°	7919.1	7941.9	8053.6	8377.4	8505.1	8274.8	8106.0	8972.5	10862.8	10856.0	7816.5
52.5°	6888.4	6963.7	7150.7	7618.1	8261.1	8546.1	8363.7	9091.1	10922.1	10933.5	8024.0
55°	5244.4	5285.5	5641.2	6208.9	6920.4	7896.3	8261.1	9184.6	10967.7	10988.2	8274.8
56°	4549.0	4439.5	4952.6	5356.1	6206.7	7273.8	8001.2	9111.6	10940.3	11097.6	8400.2
57.5°	3434.0	3361.0	3776.0	4279.9	5098.5	6224.9	7194.0	8767.3	10755.6	10753.3	8220.1
60°	2088.6	2015.7	2334.9	2631.3	3089.6	3833.0	4861.3	6981.9	9093.4	9284.9	6655.9
62.5°	1242.7	1288.3	1603.0	1783.1	1931.3	2008.8	2515.0	4149.9	6067.6	6204.4	4129.4
65°	827.7	843.7	1080.8	1377.2	1443.4	1149.2	1023.8	1680.5	2631.3	2547.0	1703.3
67.5°	510.8	547.2	725.1	1035.2	1146.9	839.1	485.7	627.1	725.1	725.1	492.5
70°	310.1	328.3	483.4	704.6	786.7	540.4	353.4	353.4	348.9	342.0	294.1
72.5°	148.2	159.6	246.3	362.5	369.4	285.0	273.6	298.7	291.9	289.6	244.0
75°	63.8	68.4	86.6	114.0	130.0	120.8	166.5	214.3	221.2	214.3	175.6
77.5°	20.5	22.8	31.9	41.0	43.3	52.4	70.7	88.9	102.6	95.8	86.6
80°	2.3	4.6	9.1	20.5	31.9	41.0	52.4	59.3	66.1	66.1	61.6
82.5°	2.3	2.3	9.1	18.2	29.6	38.8	50.2	57.0	66.1	68.4	63.8
85°	0.0	2.3	6.8	16.0	25.1	25.1	22.8	22.8	16.0	16.0	16.0
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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: P529149

CATALOG NUMBER: GALN-SA4B-735-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0
2.5°	2077.2	2072.7	2011.1	1972.4	1951.8	1910.8	1885.7	1867.5	1853.8	1837.8	1840.1
5°	2104.6	2088.6	1986.0	1915.4	1831.0	1785.4	1746.6	1714.7	1694.2	1689.6	1680.5
7.5°	2182.1	2097.8	1942.7	1815.0	1707.9	1662.3	1628.1	1607.5	1616.6	1596.1	1612.1
10°	2241.4	2116.0	1890.3	1705.6	1598.4	1564.2	1546.0	1561.9	1584.7	1575.6	1564.2
12.5°	2314.4	2134.3	1805.9	1600.7	1500.4	1475.3	1507.2	1536.8	1582.4	1600.7	1577.9
15°	2396.5	2154.8	1698.7	1479.8	1416.0	1436.5	1491.2	1543.7	1589.3	1612.1	1625.8
17.5°	2496.8	2147.9	1593.8	1384.1	1336.2	1395.5	1461.6	1509.5	1577.9	1612.1	1603.0
20°	2590.3	2125.1	1477.6	1288.3	1290.6	1345.3	1400.0	1477.6	1514.0	1559.6	1543.7
22.5°	2679.2	2084.1	1356.7	1222.2	1222.2	1306.5	1333.9	1384.1	1416.0	1438.8	1436.5
25°	2804.6	2006.6	1256.4	1158.3	1185.7	1240.4	1263.2	1279.2	1265.5	1283.7	1286.0
27.5°	2893.6	1926.8	1174.3	1101.3	1151.5	1192.5	1185.7	1176.6	1144.7	1119.6	1135.5
30°	2989.3	1833.3	1103.6	1062.6	1089.9	1126.4	1099.0	1071.7	1021.5	980.5	982.8
32.5°	3126.1	1789.9	1042.0	1017.0	1053.4	1058.0	1028.4	987.3	937.2	898.4	896.1
35°	3381.5	1762.6	989.6	987.3	994.2	996.4	966.8	916.6	896.1	864.2	875.6
37.5°	3636.9	1748.9	953.1	944.0	941.7	944.0	909.8	861.9	900.7	898.4	903.0
40°	3963.0	1810.5	900.7	889.3	891.6	891.6	848.2	834.5	903.0	909.8	912.1
42.5°	4293.6	1888.0	866.5	830.0	839.1	839.1	816.3	800.3	848.2	802.6	795.8
45°	4580.9	2002.0	830.0	770.7	793.5	804.9	798.1	770.7	741.1	663.5	663.5
47.5°	4674.4	2102.3	786.7	713.7	731.9	782.1	761.6	704.6	652.1	588.3	583.7
50°	4838.5	2211.8	752.5	647.6	686.3	747.9	727.4	670.4	611.1	565.5	567.8
52.5°	5007.3	2337.2	688.6	570.0	617.9	720.5	720.5	656.7	565.5	533.6	529.0
55°	5260.4	2332.6	574.6	467.4	551.8	679.5	690.9	588.3	506.2	481.1	481.1
56°	5296.9	2227.7	517.6	437.8	522.2	668.1	670.4	570.0	483.4	456.0	456.0
57.5°	5023.2	2011.1	453.8	401.3	485.7	647.6	649.9	554.1	465.2	426.4	421.8
60°	3864.9	1361.3	378.5	358.0	440.1	583.7	595.1	503.9	408.2	378.5	376.2
62.5°	2182.1	754.7	332.9	323.8	378.5	497.1	531.3	440.1	346.6	330.6	335.2
65°	996.4	415.0	280.5	262.2	305.5	383.1	428.7	362.5	285.0	266.8	266.8
67.5°	364.8	282.7	239.4	207.5	214.3	248.5	278.2	234.9	189.3	161.9	168.7
70°	259.9	237.1	209.8	180.1	166.5	161.9	159.6	132.3	93.5	73.0	77.5
72.5°	209.8	196.1	175.6	152.8	130.0	109.4	93.5	68.4	43.3	29.6	27.4
75°	150.5	143.7	127.7	109.4	91.2	77.5	63.8	43.3	22.8	11.4	11.4
77.5°	77.5	77.5	75.2	68.4	57.0	45.6	36.5	25.1	13.7	4.6	4.6
80°	59.3	63.8	66.1	59.3	52.4	41.0	29.6	18.2	9.1	2.3	2.3
82.5°	57.0	66.1	70.7	61.6	52.4	38.8	29.6	18.2	9.1	2.3	2.3
85°	13.7	13.7	20.5	22.8	29.6	31.9	25.1	16.0	6.8	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	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)