

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: P529097

Luminaire Tested: **GALN-SA4B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529097
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-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 11105 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

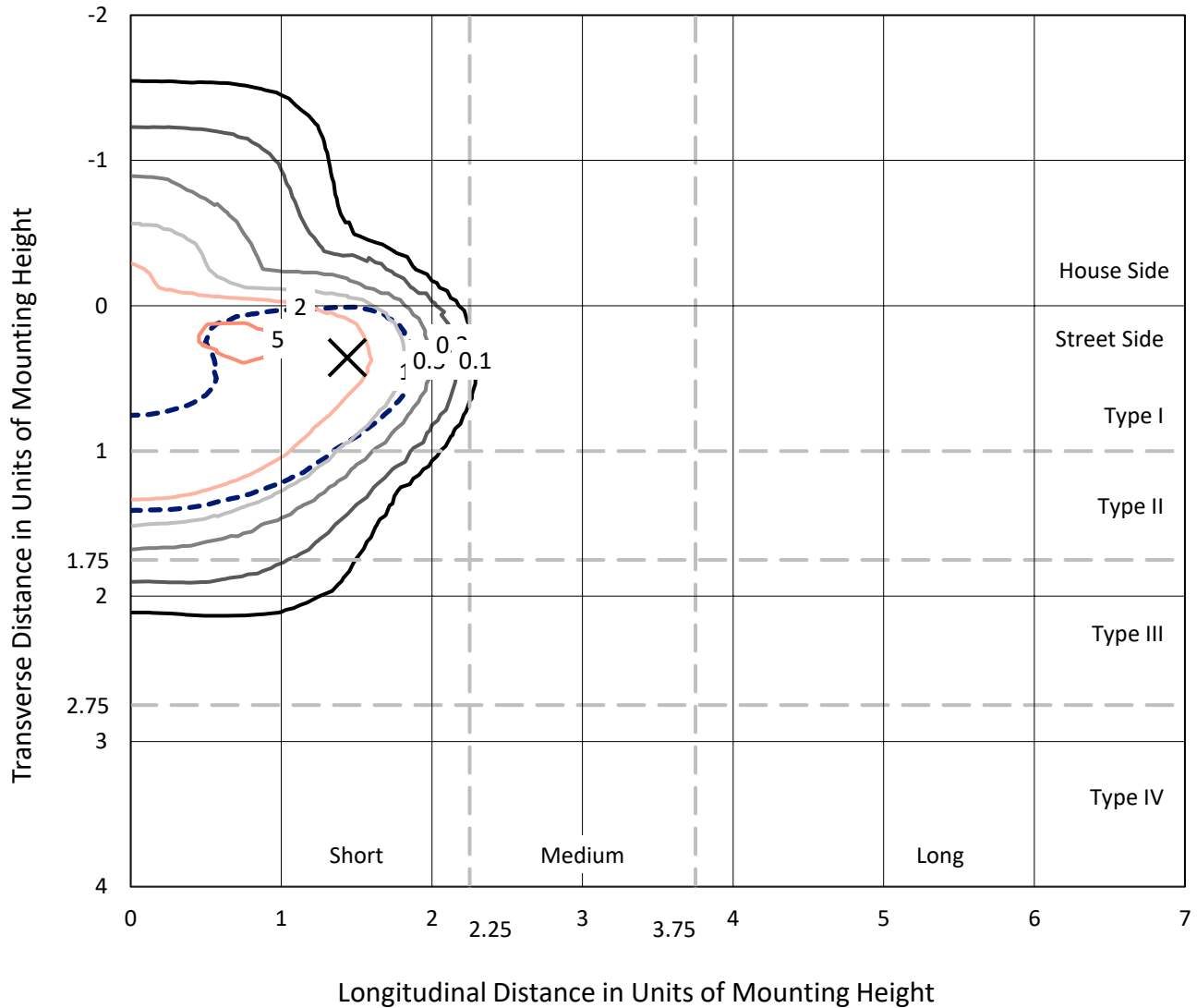
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529097
 CATALOG NUMBER: GALN-SA4B-727-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

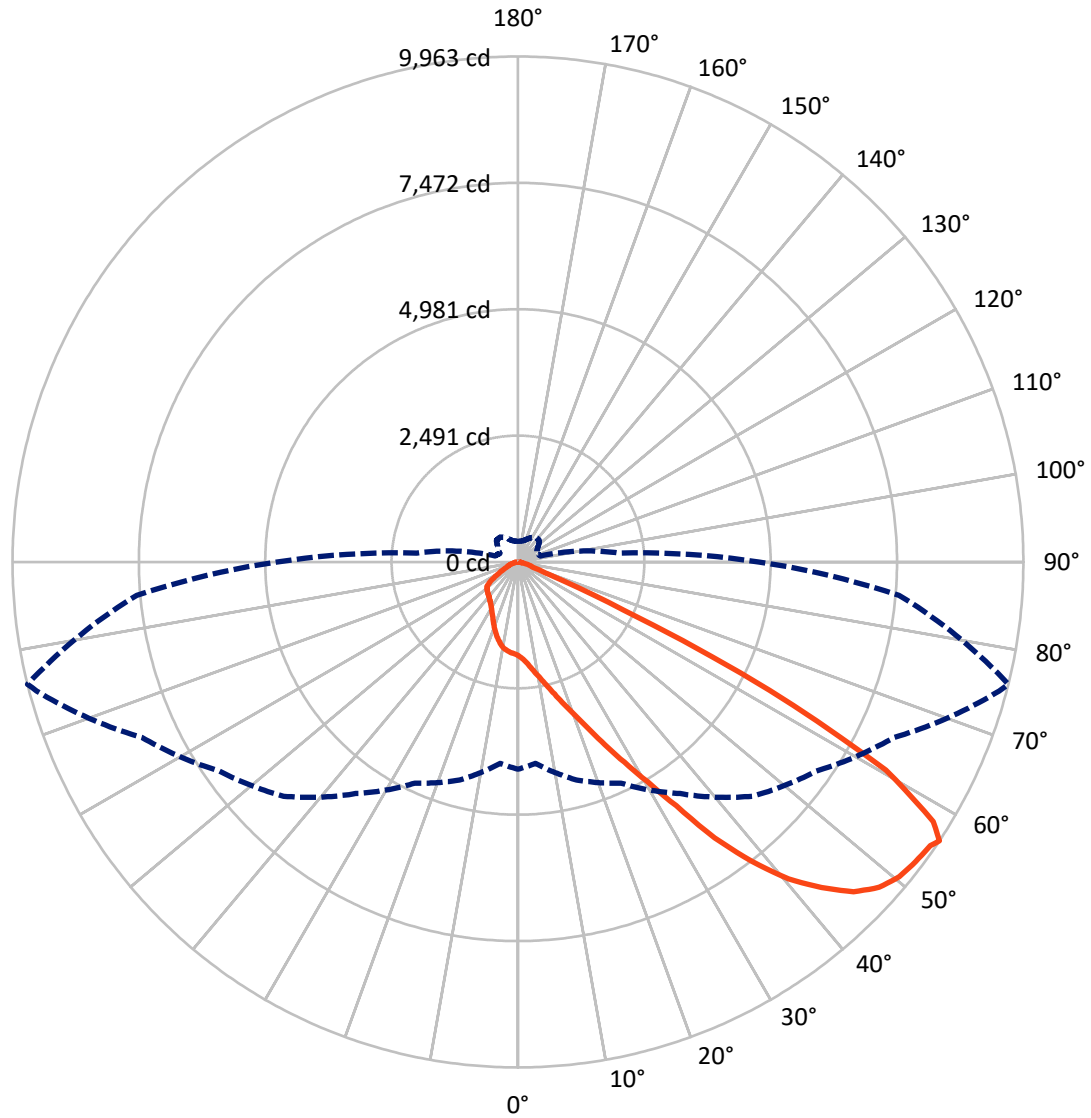
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P529097
CATALOG NUMBER: GALN-SA4B-727-U-T2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529097
 CATALOG NUMBER: GALN-SA4B-727-U-T2-GRSBK

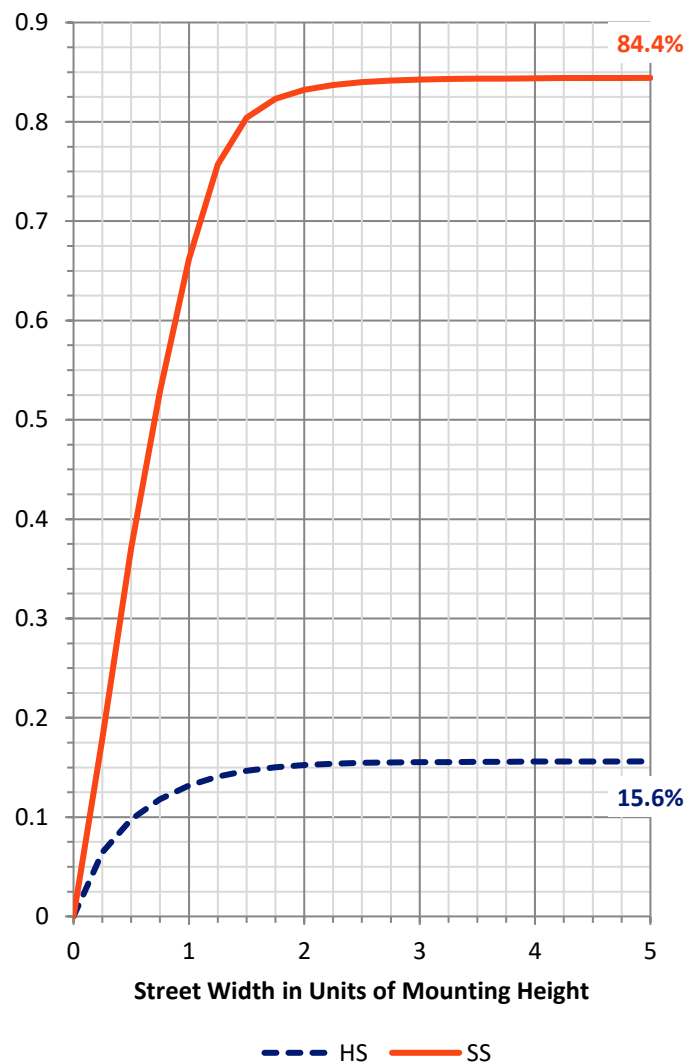
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1744.5	0.0	1744.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9360.5	0.0	9360.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	11105.0	0.0	11105.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	1.7
10°-20°	598.2	5.4
20°-30°	1084.7	9.8
30°-40°	1870.6	16.8
40°-50°	3038.9	27.4
50°-60°	3203.1	28.8
60°-70°	978.7	8.8
70°-80°	125.5	1.1
80°-90°	19.1	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°	11105.0	100.0
0°-180°	11105.0	100.0

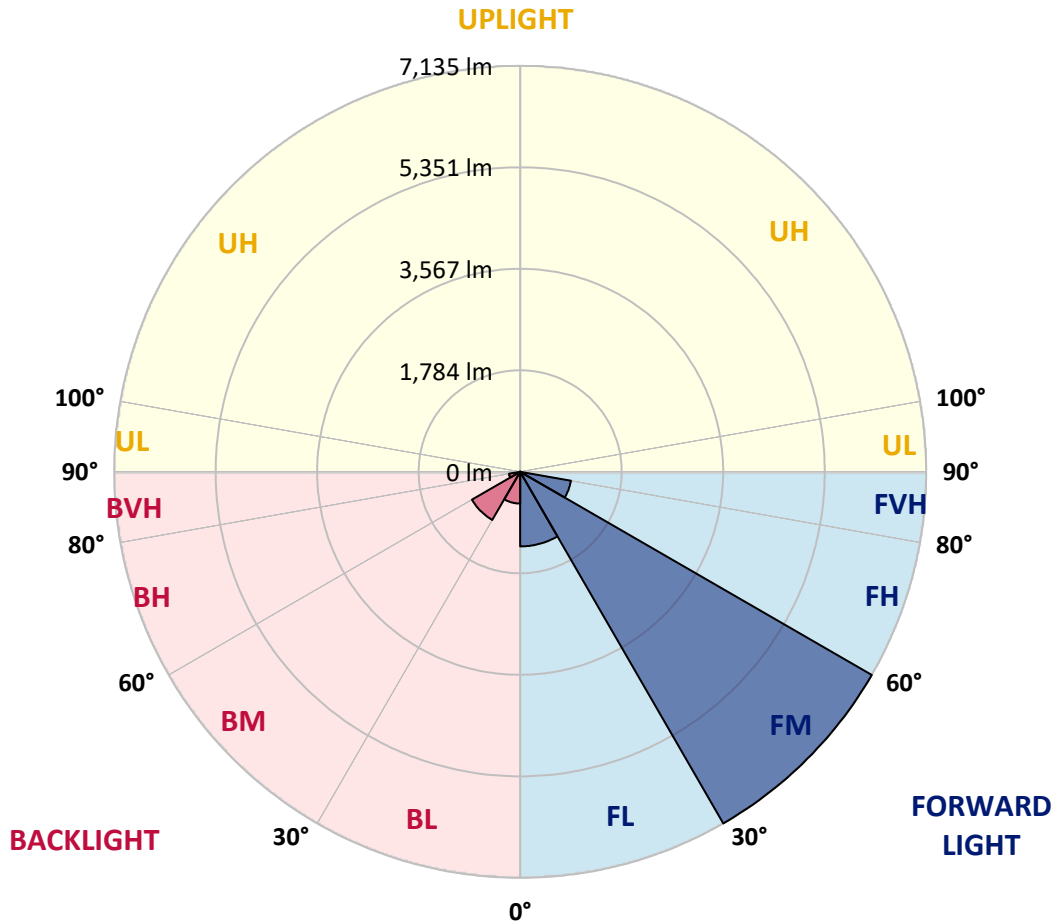


REPORT NUMBER: P529097
 CATALOG NUMBER: GALN-SA4B-727-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.0	11.8			
FM (30°-60°)	7134.9	64.2			
FH (60°-80°)	905.1	8.2			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	558.1	5.0	B2/1000		
BM (30°-60°)	977.7	8.8	B1/1000		
BH (60°-80°)	199.0	1.8	B1/500		G1/500
BVH (80°-90°)	9.7	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: P529097

CATALOG NUMBER: GALN-SA4B-727-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4
2.5°	2128.9	2079.8	2081.8	2077.7	2071.6	2049.1	1981.5	1971.3	1926.2	1913.9	1873.0
5°	2384.8	2341.8	2366.3	2329.5	2294.7	2274.2	2163.7	2112.5	2040.9	2014.3	1956.9
7.5°	2544.4	2524.0	2515.8	2517.8	2485.1	2433.9	2384.8	2272.2	2176.0	2155.5	2034.7
10°	2622.2	2609.9	2622.2	2616.1	2630.4	2636.5	2550.6	2483.0	2341.8	2307.0	2118.6
12.5°	2640.6	2665.2	2675.4	2702.0	2736.8	2796.2	2790.1	2698.0	2509.6	2487.1	2247.6
15°	2685.7	2706.1	2695.9	2738.9	2804.4	2904.7	2957.9	2943.6	2740.9	2700.0	2397.0
17.5°	2726.6	2689.8	2724.6	2810.5	2876.0	3029.6	3158.5	3217.9	2992.7	2945.6	2534.2
20°	2781.9	2771.6	2765.5	2808.5	2925.2	3129.9	3385.7	3494.2	3275.2	3226.1	2730.7
22.5°	2949.7	2951.8	2947.7	2884.2	2968.2	3199.5	3584.3	3852.5	3613.0	3572.0	2953.8
25°	3170.8	3144.2	3123.7	3072.6	3062.3	3262.9	3784.9	4290.5	4018.3	3989.6	3195.4
27.5°	3404.2	3404.2	3342.8	3295.7	3230.2	3420.5	3969.1	4716.3	4507.5	4468.6	3406.2
30°	3658.0	3672.3	3664.1	3563.8	3522.9	3592.5	4157.5	5260.8	5068.4	5019.3	3754.2
32.5°	4032.6	4001.9	4036.7	3952.8	3832.0	3893.4	4454.3	5748.0	5797.1	5727.5	4210.7
35°	4528.0	4509.5	4487.0	4349.9	4206.6	4255.7	4873.9	6347.8	6712.1	6677.3	4671.3
37.5°	4972.2	4961.9	4943.5	4849.4	4683.5	4742.9	5350.9	6972.1	7604.6	7490.0	5322.2
40°	5438.9	5494.2	5434.8	5350.9	5199.4	5330.4	5911.7	7342.6	8355.9	8216.7	5819.6
42.5°	6071.4	6028.4	6055.0	5901.5	5819.6	5962.9	6474.7	7713.1	8939.3	8773.5	6347.8
45°	6744.9	6746.9	6675.3	6626.1	6413.3	6568.8	6820.6	7917.8	9403.9	9275.0	6746.9
47.5°	7176.8	7174.7	7252.5	7330.3	7111.3	6957.8	7056.0	8112.3	9643.4	9584.1	6892.3
50°	7109.2	7129.7	7230.0	7520.7	7635.3	7428.6	7277.1	8055.0	9751.9	9745.8	7017.1
52.5°	6184.0	6251.5	6419.4	6839.0	7416.3	7672.2	7508.4	8161.4	9805.1	9815.4	7203.4
55°	4708.1	4745.0	5064.3	5574.0	6212.7	7088.8	7416.3	8245.3	9846.1	9864.5	7428.6
56°	4083.8	3985.5	4446.1	4808.4	5571.9	6529.9	7182.9	8179.8	9821.5	9962.8	7541.2
57.5°	3082.8	3017.3	3389.8	3842.2	4577.1	5588.3	6458.3	7870.7	9655.7	9653.7	7379.4
60°	1875.1	1809.6	2096.1	2362.2	2773.7	3441.0	4364.2	6267.9	8163.4	8335.4	5975.2
62.5°	1115.6	1156.6	1439.0	1600.8	1733.8	1803.4	2257.8	3725.5	5447.1	5569.9	3707.1
65°	743.1	757.4	970.3	1236.4	1295.8	1031.7	919.1	1508.6	2362.2	2286.5	1529.1
67.5°	458.5	491.3	650.9	929.3	1029.6	753.3	436.0	562.9	650.9	650.9	442.2
70°	278.4	294.8	434.0	632.5	706.2	485.1	317.3	317.3	313.2	307.1	264.1
72.5°	133.1	143.3	221.1	325.5	331.6	255.9	245.6	268.2	262.0	260.0	219.0
75°	57.3	61.4	77.8	102.4	116.7	108.5	149.4	192.4	198.6	192.4	157.6
77.5°	18.4	20.5	28.7	36.8	38.9	47.1	63.5	79.8	92.1	86.0	77.8
80°	2.0	4.1	8.2	18.4	28.7	36.8	47.1	53.2	59.4	59.4	55.3
82.5°	2.0	2.0	8.2	16.4	26.6	34.8	45.0	51.2	59.4	61.4	57.3
85°	0.0	2.0	6.1	14.3	22.5	22.5	20.5	20.5	14.3	14.3	14.3
87.5°	0.0	0.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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: P529097

CATALOG NUMBER: GALN-SA4B-727-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4
2.5°	1864.8	1860.7	1805.5	1770.7	1752.2	1715.4	1692.9	1676.5	1664.2	1649.9	1651.9
5°	1889.4	1875.1	1782.9	1719.5	1643.7	1602.8	1568.0	1539.3	1520.9	1516.8	1508.6
7.5°	1959.0	1883.2	1744.0	1629.4	1533.2	1492.3	1461.6	1443.1	1451.3	1432.9	1447.2
10°	2012.2	1899.6	1697.0	1531.2	1434.9	1404.2	1387.9	1402.2	1422.7	1414.5	1404.2
12.5°	2077.7	1916.0	1621.2	1437.0	1346.9	1324.4	1353.1	1379.7	1420.6	1437.0	1416.5
15°	2151.4	1934.4	1525.0	1328.5	1271.2	1289.6	1338.7	1385.8	1426.8	1447.2	1459.5
17.5°	2241.5	1928.3	1430.9	1242.5	1199.5	1252.8	1312.1	1355.1	1416.5	1447.2	1439.0
20°	2325.4	1907.8	1326.5	1156.6	1158.6	1207.7	1256.9	1326.5	1359.2	1400.2	1385.8
22.5°	2405.2	1871.0	1218.0	1097.2	1097.2	1172.9	1197.5	1242.5	1271.2	1291.7	1289.6
25°	2517.8	1801.4	1127.9	1039.9	1064.4	1113.6	1134.0	1148.4	1136.1	1152.5	1154.5
27.5°	2597.6	1729.7	1054.2	988.7	1033.7	1070.6	1064.4	1056.3	1027.6	1005.1	1019.4
30°	2683.6	1645.8	990.7	953.9	978.5	1011.2	986.7	962.1	917.1	880.2	882.3
32.5°	2806.4	1606.9	935.5	913.0	945.7	949.8	923.2	886.4	841.3	806.5	804.5
35°	3035.7	1582.3	888.4	886.4	892.5	894.5	867.9	822.9	804.5	775.8	786.0
37.5°	3265.0	1570.1	855.6	847.5	845.4	847.5	816.8	773.8	808.6	806.5	810.6
40°	3557.7	1625.3	808.6	798.3	800.4	800.4	761.5	749.2	810.6	816.8	818.8
42.5°	3854.5	1694.9	777.9	745.1	753.3	753.3	732.8	718.5	761.5	720.5	714.4
45°	4112.4	1797.3	745.1	691.9	712.4	722.6	716.5	691.9	665.3	595.7	595.7
47.5°	4196.4	1887.3	706.2	640.7	657.1	702.1	683.7	632.5	585.4	528.1	524.0
50°	4343.7	1985.6	675.5	581.3	616.1	671.4	653.0	601.8	548.6	507.7	509.7
52.5°	4495.2	2098.2	618.2	511.8	554.7	646.9	646.9	589.5	507.7	479.0	474.9
55°	4722.4	2094.1	515.8	419.6	495.4	610.0	620.2	528.1	454.4	431.9	431.9
56°	4755.2	1999.9	464.7	393.0	468.8	599.8	601.8	511.8	434.0	409.4	409.4
57.5°	4509.5	1805.5	407.4	360.3	436.0	581.3	583.4	497.4	417.6	382.8	378.7
60°	3469.7	1222.1	339.8	321.4	395.1	524.0	534.3	452.4	366.4	339.8	337.8
62.5°	1959.0	677.6	298.9	290.7	339.8	446.2	477.0	395.1	311.1	296.8	300.9
65°	894.5	372.6	251.8	235.4	274.3	343.9	384.8	325.5	255.9	239.5	239.5
67.5°	327.5	253.8	214.9	186.3	192.4	223.1	249.7	210.8	169.9	145.3	151.5
70°	233.4	212.9	188.3	161.7	149.4	145.3	143.3	118.7	83.9	65.5	69.6
72.5°	188.3	176.0	157.6	137.1	116.7	98.3	83.9	61.4	38.9	26.6	24.6
75°	135.1	129.0	114.6	98.3	81.9	69.6	57.3	38.9	20.5	10.2	10.2
77.5°	69.6	69.6	67.6	61.4	51.2	40.9	32.8	22.5	12.3	4.1	4.1
80°	53.2	57.3	59.4	53.2	47.1	36.8	26.6	16.4	8.2	2.0	2.0
82.5°	51.2	59.4	63.5	55.3	47.1	34.8	26.6	16.4	8.2	2.0	2.0
85°	12.3	12.3	18.4	20.5	26.6	28.7	22.5	14.3	6.1	2.0	2.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	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)