

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: P952708

Luminaire Tested: **GALN-SB6C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42841 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 300.9
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

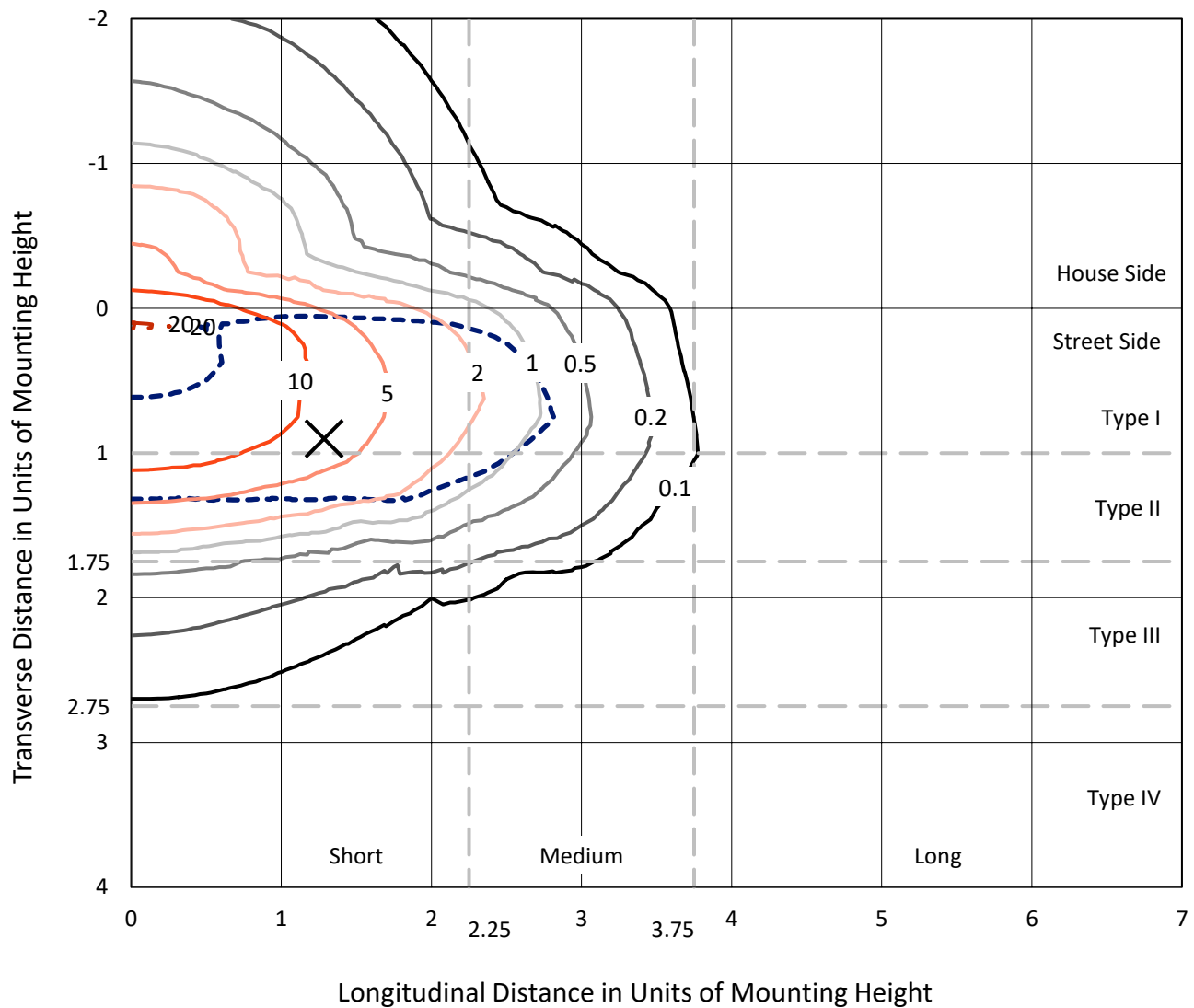


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

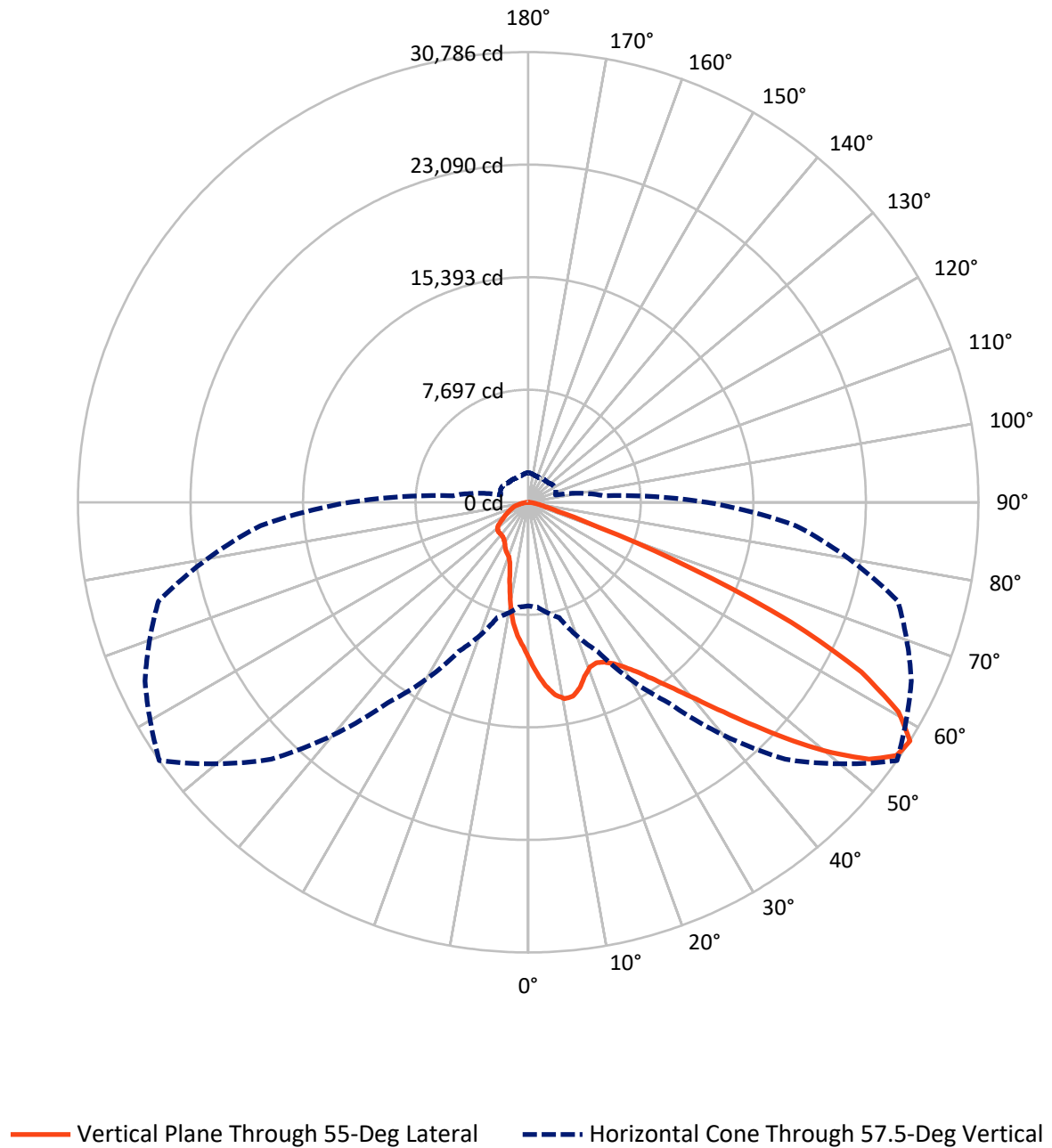


Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7751.9	0.0	7751.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35089.1	0.0	35089.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	42841.0	0.0	42841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.1	2.3
10°-20°	2514.2	5.9
20°-30°	4012.0	9.4
30°-40°	6351.9	14.8
40°-50°	9722.3	22.7
50°-60°	10413.5	24.3
60°-70°	6551.2	15.3
70°-80°	1937.3	4.5
80°-90°	342.5	0.8
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°	42841.0	100.0
0°-180°	42841.0	100.0

Coefficient of Utilization



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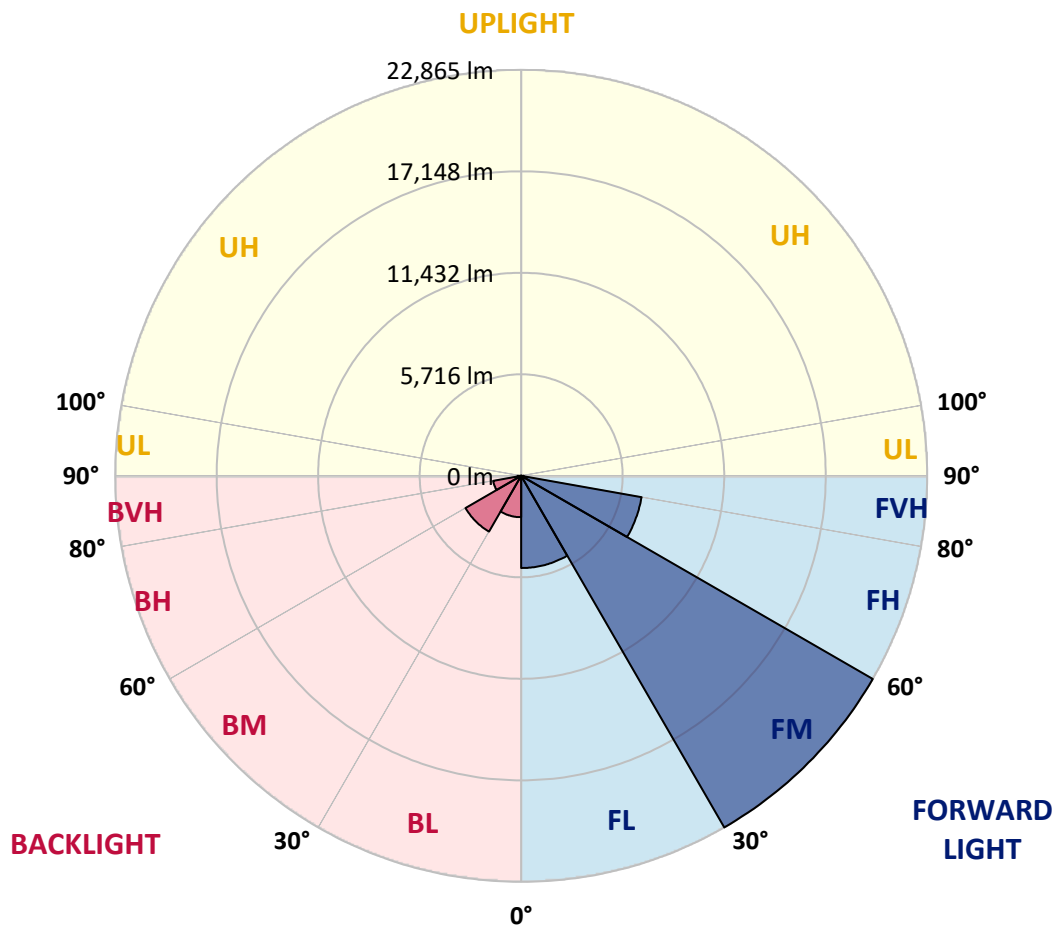
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5192.3	12.1			
FM	(30°-60°)	22864.5	53.4			
FH	(60°-80°)	6887.5	16.1			G3/7500
FVH	(80°-90°)	144.7	0.3			G2/225
BL	(0°-30°)	2330.0	5.4	B3/2500		
BM	(30°-60°)	3623.2	8.5	B3/5000		
BH	(60°-80°)	1601.0	3.7	B3/2500		G3/2500
BVH	(80°-90°)	197.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6
2.5°	12315.8	12307.0	12355.7	12189.6	12076.7	11923.8	11722.3	11465.4	11188.6	10896.2	10770.0
5°	13425.4	13347.9	13398.8	13274.8	13150.8	12920.5	12621.5	12202.9	11691.3	11108.8	10798.8
7.5°	13250.4	13197.3	13328.0	13438.7	13531.7	13502.9	13283.7	12845.2	12185.2	11339.2	10889.6
10°	11839.7	11779.9	11963.7	12346.9	12909.4	13398.8	13664.6	13392.2	12690.1	11591.6	10978.2
12.5°	10595.0	10566.2	10688.1	10998.1	11622.7	12561.7	13615.9	13870.6	13215.0	11890.6	11097.8
15°	10063.5	10028.1	10105.6	10262.8	10661.5	11536.3	13172.9	14198.3	13731.0	12236.1	11288.2
17.5°	9946.1	9906.3	9939.5	10021.4	10278.3	10945.0	12504.1	14360.0	14269.2	12621.5	11447.7
20°	10163.2	10130.0	10134.4	10130.0	10309.3	10838.7	12039.0	14298.0	14738.7	12975.8	11602.7
22.5°	10688.1	10632.7	10634.9	10517.5	10615.0	11024.7	11917.2	14131.9	15157.3	13285.9	11720.1
25°	11542.9	11443.3	11463.2	11164.2	11137.6	11441.0	12107.7	14003.4	15573.6	13533.9	11742.2
27.5°	12712.3	12599.3	12539.5	12094.4	11881.8	12032.4	12495.2	14047.7	15967.9	13748.7	11686.9
30°	14174.0	14036.7	13914.8	13283.7	12898.3	12842.9	13097.6	14340.1	16432.9	13974.6	11591.6
32.5°	15965.6	15806.2	15584.7	14747.6	14205.0	13914.8	13877.2	14860.5	16977.8	14262.6	11542.9
35°	18098.4	17890.2	17575.7	16492.7	15806.2	15212.7	14904.8	15611.3	17724.1	14696.6	11598.3
37.5°	20295.3	20060.6	19772.7	18483.7	17639.9	16765.1	16158.3	16630.0	18718.5	15285.7	11744.5
40°	22321.8	22058.2	21790.3	20643.1	19737.2	18683.1	17693.1	17919.0	19934.4	15990.0	11992.5
42.5°	23517.7	23322.8	23220.9	22600.8	21901.0	20831.3	19602.2	19447.1	21300.8	16800.6	12276.0
45°	23464.6	23384.8	23699.3	23956.2	23790.1	23196.6	21839.0	21136.9	22671.7	17502.6	12537.3
47.5°	22211.0	22264.2	22966.3	24410.2	25045.8	25355.9	24385.9	22795.7	23863.2	18027.5	12654.7
50°	18800.4	18844.7	20470.3	23584.1	25369.2	27116.6	26912.8	24414.7	24786.7	18348.6	12628.1
52.5°	16100.7	16129.5	16827.2	21134.7	24301.7	28002.4	29189.5	25940.6	25462.2	18437.2	12479.7
55°	12127.6	12227.3	13009.0	16581.3	21524.5	27300.4	30575.9	27513.0	25889.6	18446.1	12324.7
57.5°	7084.8	7193.3	8158.9	11255.0	16729.7	24853.2	30786.3	28908.2	26179.8	18375.2	12231.7
60°	3470.4	3516.9	3937.7	5915.4	10316.0	20138.1	29094.3	29583.7	26341.4	18337.6	12227.3
62.5°	2338.7	2332.1	2349.8	2919.0	5082.7	12938.2	25568.5	28401.1	26255.1	18193.6	12183.0
65°	2010.9	1986.6	1920.1	2048.6	2633.3	5917.6	19755.0	24870.9	25597.3	17832.6	11879.6
67.5°	1738.5	1740.7	1743.0	1703.1	1880.3	2730.7	12072.2	19591.1	23236.4	16122.9	10710.2
70°	1439.5	1459.5	1468.3	1468.3	1532.6	1791.7	5153.6	13427.6	18328.7	12641.4	8626.2
72.5°	1311.1	1269.0	1273.4	1251.3	1251.3	1364.2	2075.2	7611.9	11547.4	7111.3	5264.3
75°	1069.7	1096.3	1100.7	1085.2	1034.3	1040.9	1231.4	3193.6	4941.0	2950.0	2602.3
77.5°	923.5	923.5	932.4	921.3	881.4	779.6	821.6	1238.0	1680.9	1209.2	1300.0
80°	741.9	739.7	777.4	799.5	737.5	575.8	524.9	684.3	746.3	531.5	675.5
82.5°	361.0	383.1	533.7	609.0	560.3	416.4	321.1	425.2	398.6	234.8	303.4
85°	210.4	199.3	239.2	338.8	321.1	230.3	155.0	221.5	208.2	119.6	121.8
87.5°	66.4	62.0	48.7	115.2	93.0	64.2	42.1	64.2	57.6	26.6	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6	10734.6
2.5°	10612.8	10351.4	10092.3	9855.3	9711.4	9618.4	9525.3	9421.3	9381.4	9321.6
5°	10506.5	10001.5	9551.9	9164.4	8812.2	8535.4	8256.3	8030.4	7928.6	7997.2
7.5°	10444.4	9713.6	9020.4	8309.5	7625.2	7078.1	6602.0	6267.6	6117.0	6154.6
10°	10389.1	9388.0	8331.6	7208.8	6225.5	5547.8	5060.5	4805.9	4710.6	4730.6
12.5°	10338.1	9022.6	7501.1	6023.9	4978.6	4531.2	4391.7	4393.9	4411.6	4424.9
15°	10329.3	8581.9	6573.2	4987.5	4305.3	4276.6	4427.1	4522.4	4573.3	4588.8
17.5°	10316.0	8054.8	5627.5	4281.0	4141.5	4336.3	4475.9	4537.9	4577.7	4580.0
20°	10262.8	7386.0	4754.9	3944.3	4106.0	4274.3	4360.7	4409.4	4442.7	4453.7
22.5°	10099.0	6641.8	4075.0	3793.8	3964.3	4099.4	4201.3	4256.6	4276.6	4289.8
25°	9804.4	5809.1	3605.5	3649.8	3767.2	3937.7	4019.6	4030.7	4024.1	4044.0
27.5°	9419.0	4916.6	3313.2	3454.9	3605.5	3751.7	3796.0	3789.3	3776.0	3798.2
30°	8954.0	4114.9	3127.1	3235.7	3441.6	3574.5	3614.4	3598.9	3572.3	3596.6
32.5°	8462.3	3459.3	2974.3	3082.8	3306.5	3437.2	3477.1	3461.5	3441.6	3461.5
35°	8003.9	3000.9	2832.6	2981.0	3200.2	3328.7	3379.6	3381.8	3381.8	3406.2
37.5°	7583.1	2732.9	2715.2	2916.7	3127.1	3242.3	3315.4	3319.8	3224.6	3231.2
40°	7193.3	2620.0	2662.0	2874.7	3056.3	3167.0	3171.4	2923.4	2748.4	2744.0
42.5°	6874.4	2597.8	2677.6	2870.2	3005.3	3009.8	2697.5	2504.8	2456.1	2458.3
45°	6575.4	2591.2	2713.0	2870.2	2930.0	2600.0	2389.6	2338.7	2343.1	2360.9
47.5°	6241.0	2564.6	2719.6	2830.4	2713.0	2312.1	2250.1	2228.0	2219.1	2223.5
50°	5875.6	2469.4	2635.5	2750.6	2340.9	2188.1	2110.6	2103.9	2115.0	2121.7
52.5°	5490.2	2314.3	2491.5	2606.7	2170.4	2079.6	1993.2	2008.7	2057.4	2072.9
55°	5237.7	2132.7	2301.1	2318.8	2050.8	1977.7	1904.6	1940.1	2030.9	2059.7
57.5°	5171.3	1940.1	2084.0	2064.1	1898.0	1889.1	1844.8	1875.8	1991.0	2033.1
60°	5151.4	1767.3	1871.4	1855.9	1749.6	1791.7	1780.6	1796.1	1836.0	1849.3
62.5°	4996.3	1630.0	1680.9	1658.8	1616.7	1689.8	1716.4	1683.2	1714.2	1729.7
65°	4602.1	1519.3	1494.9	1479.4	1497.1	1563.6	1616.7	1550.3	1579.1	1623.4
67.5°	3951.0	1368.7	1302.2	1320.0	1375.3	1410.8	1479.4	1404.1	1428.5	1503.8
70°	3195.8	1178.2	1118.4	1169.4	1222.5	1295.6	1306.7	1255.7	1313.3	1397.5
72.5°	2261.2	985.5	943.5	1047.5	1065.3	1160.5	1136.1	1111.8	1191.5	1220.3
75°	1568.0	795.1	770.7	850.4	914.7	996.6	978.9	1007.7	1176.0	1189.3
77.5°	992.2	617.9	602.4	653.3	741.9	832.7	861.5	1189.3	2008.7	2088.4
80°	575.8	460.7	442.9	482.8	560.3	644.5	830.5	1459.5	1324.4	1308.9
82.5°	321.1	316.7	294.6	305.6	374.3	465.1	1173.8	1027.6	834.9	861.5
85°	150.6	186.0	159.5	152.8	210.4	544.8	784.0	586.9	389.8	380.9
87.5°	39.9	35.4	35.4	39.9	88.6	469.5	312.3	250.3	148.4	144.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)