

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: P953044

Luminaire Tested: **GALN-SB6D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953044
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-SB6D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51844 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 440.1
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

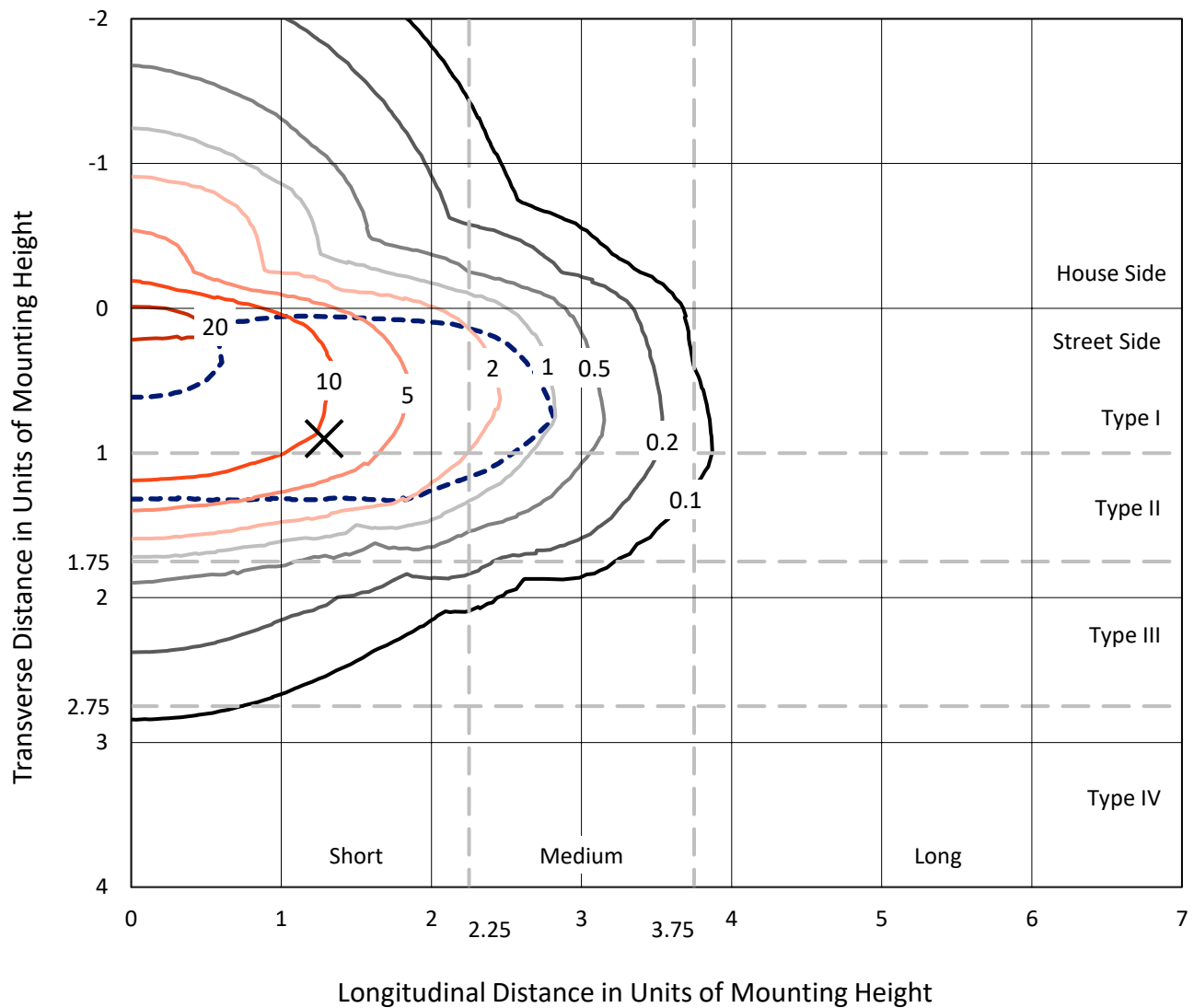


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

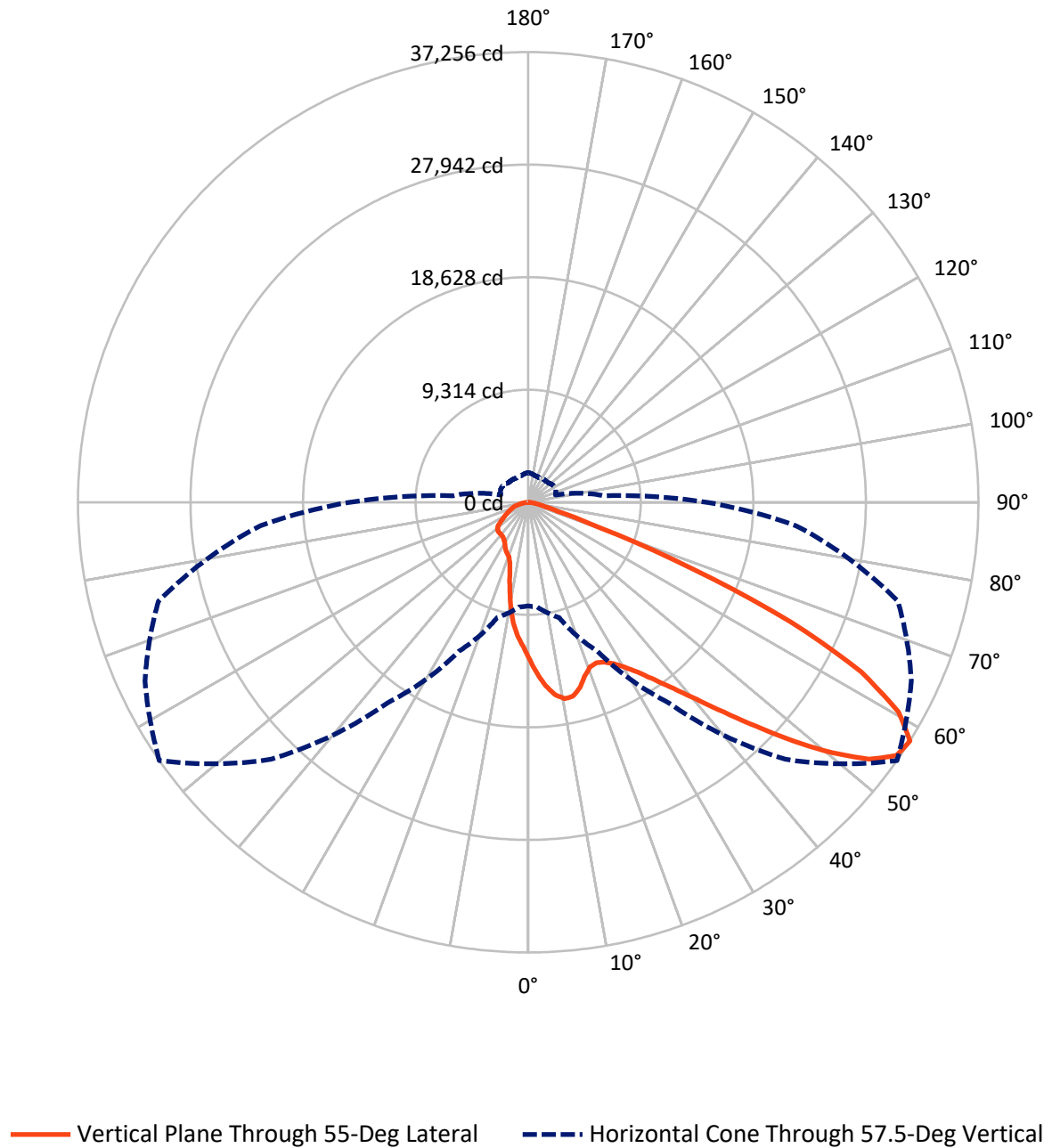


Based on 25 foot mounting height. Maximum calculated value = 25.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9380.9	0.0	9380.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	42463.1	0.0	42463.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	51844.0	0.0	51844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1205.4	2.3
10°-20°	3042.6	5.9
20°-30°	4855.1	9.4
30°-40°	7686.8	14.8
40°-50°	11765.4	22.7
50°-60°	12601.9	24.3
60°-70°	7927.9	15.3
70°-80°	2344.4	4.5
80°-90°	414.5	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°	51844.0	100.0
0°-180°	51844.0	100.0

Coefficient of Utilization



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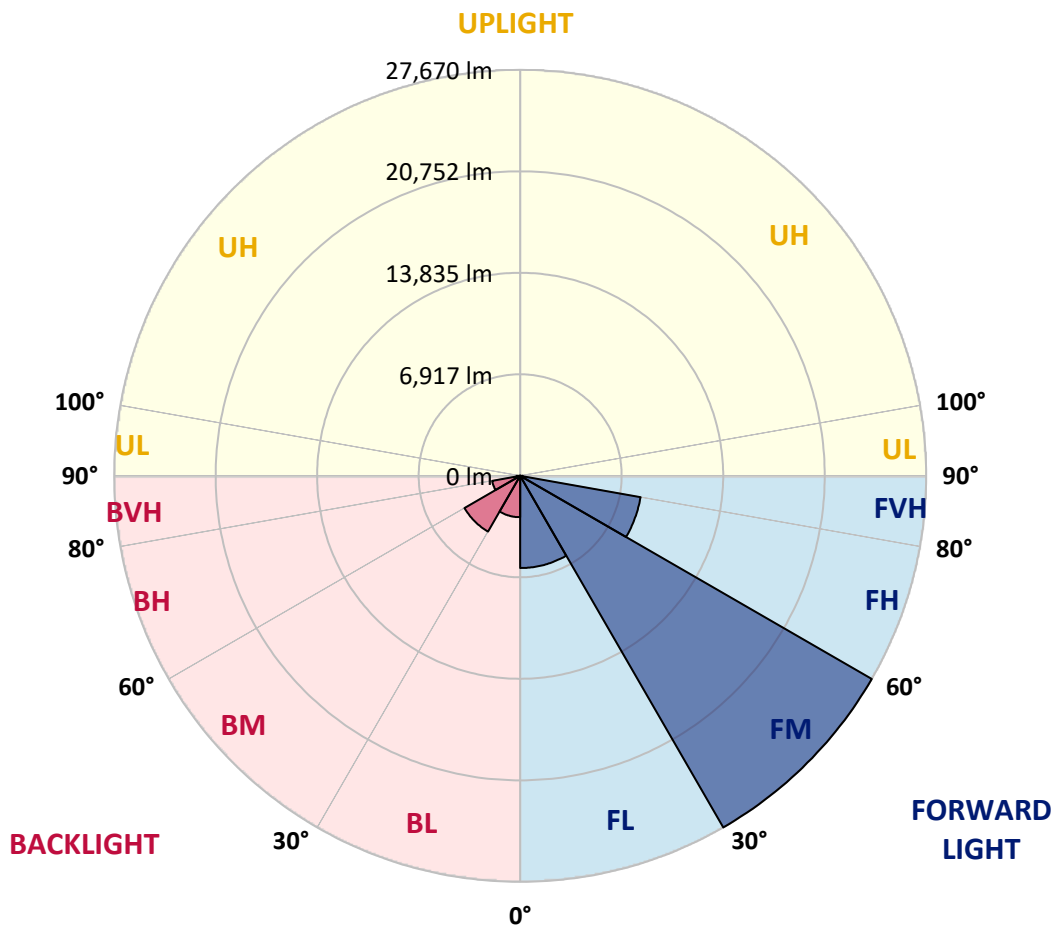
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6283.5	12.1			
FM	(30°-60°)	27669.5	53.4			
FH	(60°-80°)	8334.9	16.1			G4/12000
FVH	(80°-90°)	175.1	0.3			G2/225
BL	(0°-30°)	2819.6	5.4	B4/5000		
BM	(30°-60°)	4384.6	8.5	B3/5000		
BH	(60°-80°)	1937.4	3.7	B3/2500		G3/2500
BVH	(80°-90°)	239.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4
2.5°	14904.0	14893.3	14952.3	14751.2	14614.6	14429.6	14185.7	13874.9	13539.8	13186.1	13033.3
5°	16246.7	16152.9	16214.6	16064.5	15914.4	15635.7	15273.9	14767.3	14148.2	13443.4	13068.1
7.5°	16035.0	15970.7	16128.8	16262.8	16375.4	16340.5	16075.2	15544.6	14745.9	13722.1	13178.0
10°	14327.8	14255.4	14477.9	14941.5	15622.3	16214.6	16536.2	16206.5	15356.9	14027.6	13285.2
12.5°	12821.6	12786.7	12934.1	13309.4	14065.1	15201.5	16477.2	16785.4	15992.1	14389.4	13430.0
15°	12178.4	12135.5	12229.3	12419.6	12902.0	13960.6	15941.2	17182.1	16616.6	14807.5	13660.4
17.5°	12036.3	11988.1	12028.3	12127.4	12438.3	13245.0	15131.8	17377.7	17267.9	15273.9	13853.4
20°	12299.0	12258.8	12264.1	12258.8	12475.8	13116.4	14569.0	17302.7	17836.0	15702.7	14041.0
22.5°	12934.1	12867.1	12869.8	12727.8	12845.7	13341.5	14421.6	17101.7	18342.6	16077.9	14183.1
25°	13968.7	13848.1	13872.2	13510.4	13478.2	13845.4	14652.1	16946.2	18846.4	16378.1	14209.9
27.5°	15383.7	15247.1	15174.7	14636.0	14378.7	14561.0	15121.1	16999.8	19323.5	16638.0	14142.9
30°	17152.6	16986.4	16839.0	16075.2	15608.9	15541.9	15850.1	17353.6	19886.3	16911.4	14027.6
32.5°	19320.8	19127.8	18859.8	17846.8	17190.1	16839.0	16793.5	17983.4	20545.6	17259.8	13968.7
35°	21901.7	21649.8	21269.2	19958.7	19127.8	18409.6	18037.0	18892.0	21448.8	17785.1	14035.7
37.5°	24560.4	24276.3	23927.9	22368.1	21347.0	20288.3	19554.0	20124.8	22652.2	18498.0	14212.5
40°	27012.7	26693.8	26369.5	24981.2	23885.0	22609.3	21411.3	21684.7	24123.5	19350.3	14512.7
42.5°	28459.9	28224.1	28100.8	27350.4	26503.5	25209.0	23721.5	23533.9	25777.2	20331.2	14855.8
45°	28395.6	28299.1	28679.7	28990.6	28789.6	28071.3	26428.4	25578.8	27436.1	21180.8	15172.0
47.5°	26878.7	26943.0	27792.6	29540.0	30309.2	30684.4	29510.5	27586.2	28878.0	21816.0	15314.1
50°	22751.3	22804.9	24772.1	28540.3	30700.5	32815.1	32568.5	29545.4	29995.6	22204.6	15281.9
52.5°	19484.3	19519.1	20363.4	25576.2	29408.7	33887.1	35323.7	31392.0	30813.1	22311.8	15102.3
55°	14676.2	14796.8	15742.9	20065.9	26047.8	33037.5	37001.4	33294.8	31330.3	22322.5	14914.7
57.5°	8573.6	8705.0	9873.5	13620.2	20245.4	30076.0	37256.0	34983.3	31681.4	22236.8	14802.2
60°	4199.7	4256.0	4765.2	7158.5	12483.9	24370.1	35208.4	35800.7	31877.1	22191.2	14796.8
62.5°	2830.2	2822.1	2843.6	3532.4	6150.8	15657.1	30941.7	34369.5	31772.5	22017.0	14743.2
65°	2433.5	2404.0	2323.6	2479.1	3186.6	7161.2	23906.5	30097.5	30976.5	21580.1	14376.0
67.5°	2103.9	2106.6	2109.2	2061.0	2275.4	3304.6	14609.2	23708.1	28119.6	19511.1	12960.9
70°	1742.1	1766.2	1776.9	1776.9	1854.6	2168.2	6236.6	16249.4	22180.5	15298.0	10439.0
72.5°	1586.6	1535.7	1541.1	1514.3	1514.3	1650.9	2511.2	9211.5	13974.0	8605.8	6370.6
75°	1294.5	1326.6	1332.0	1313.2	1251.6	1259.6	1490.1	3864.7	5979.3	3569.9	3149.1
77.5°	1117.6	1117.6	1128.3	1114.9	1066.7	943.4	994.3	1498.2	2034.2	1463.3	1573.2
80°	897.8	895.2	940.7	967.5	892.5	696.8	635.2	828.1	903.2	643.2	817.4
82.5°	436.9	463.7	645.9	737.0	678.1	503.9	388.6	514.6	482.4	284.1	367.2
85°	254.6	241.2	289.5	410.1	388.6	278.7	187.6	268.0	251.9	144.7	147.4
87.5°	80.4	75.0	59.0	139.4	112.6	77.7	50.9	77.7	69.7	32.2	32.2
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°	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4	12990.4
2.5°	12843.0	12526.8	12213.2	11926.4	11752.2	11639.7	11527.1	11401.1	11352.9	11280.5
5°	12714.4	12103.3	11559.3	11090.2	10664.1	10329.1	9991.4	9718.0	9594.7	9677.8
7.5°	12639.3	11754.9	10916.0	10055.7	9227.6	8565.6	7989.4	7584.7	7402.4	7448.0
10°	12572.3	11360.9	10082.5	8723.7	7533.7	6713.6	6124.0	5815.8	5700.6	5724.7
12.5°	12510.7	10918.7	9077.5	7289.9	6024.9	5483.5	5314.6	5317.3	5338.8	5354.8
15°	12500.0	10385.4	7954.5	6035.6	5210.1	5175.3	5357.5	5472.8	5534.4	5553.2
17.5°	12483.9	9747.5	6810.1	5180.6	5011.8	5247.6	5416.5	5491.5	5539.8	5542.4
20°	12419.6	8938.1	5754.2	4773.3	4968.9	5172.6	5277.1	5336.1	5376.3	5389.7
22.5°	12221.2	8037.6	4931.4	4591.0	4797.4	4960.9	5084.1	5151.1	5175.3	5191.3
25°	11864.8	7029.9	4363.2	4416.8	4558.8	4765.2	4864.4	4877.8	4869.7	4893.9
27.5°	11398.4	5949.8	4009.4	4180.9	4363.2	4540.1	4593.7	4585.6	4569.6	4596.4
30°	10835.6	4979.6	3784.3	3915.6	4164.9	4325.7	4373.9	4355.2	4323.0	4352.5
32.5°	10240.6	4186.3	3599.4	3730.7	4001.4	4159.5	4207.8	4189.0	4164.9	4189.0
35°	9685.9	3631.5	3427.8	3607.4	3872.7	4028.2	4089.8	4092.5	4092.5	4122.0
37.5°	9176.6	3307.2	3285.8	3529.7	3784.3	3923.7	4012.1	4017.5	3902.2	3910.3
40°	8705.0	3170.6	3221.5	3478.8	3698.5	3832.5	3837.9	3537.7	3326.0	3320.6
42.5°	8319.0	3143.8	3240.2	3473.4	3636.9	3642.2	3264.4	3031.2	2972.2	2974.9
45°	7957.2	3135.7	3283.1	3473.4	3545.8	3146.4	2891.8	2830.2	2835.5	2857.0
47.5°	7552.5	3103.6	3291.2	3425.2	3283.1	2798.0	2723.0	2696.2	2685.5	2690.8
50°	7110.3	2988.3	3189.3	3328.7	2832.9	2647.9	2554.1	2546.1	2559.5	2567.5
52.5°	6644.0	2800.7	3015.1	3154.5	2626.5	2516.6	2412.1	2430.8	2489.8	2508.6
55°	6338.4	2580.9	2784.6	2806.1	2481.8	2393.3	2304.9	2347.8	2457.6	2492.5
57.5°	6258.0	2347.8	2522.0	2497.8	2296.8	2286.1	2232.5	2270.0	2409.4	2460.3
60°	6233.9	2138.7	2264.7	2245.9	2117.3	2168.2	2154.8	2173.6	2221.8	2237.9
62.5°	6046.3	1972.6	2034.2	2007.4	1956.5	2044.9	2077.1	2036.9	2074.4	2093.2
65°	5569.2	1838.5	1809.1	1790.3	1811.7	1892.1	1956.5	1876.1	1910.9	1964.5
67.5°	4781.3	1656.3	1575.9	1597.3	1664.3	1707.2	1790.3	1699.2	1728.7	1819.8
70°	3867.4	1425.8	1353.4	1415.1	1479.4	1567.9	1581.3	1519.6	1589.3	1691.1
72.5°	2736.4	1192.6	1141.7	1267.7	1289.1	1404.4	1374.9	1345.4	1441.9	1476.7
75°	1897.5	962.2	932.7	1029.2	1106.9	1206.0	1184.6	1219.4	1423.1	1439.2
77.5°	1200.7	747.7	729.0	790.6	897.8	1007.7	1042.6	1439.2	2430.8	2527.3
80°	696.8	557.5	536.0	584.3	678.1	779.9	1005.0	1766.2	1602.7	1583.9
82.5°	388.6	383.3	356.5	369.9	452.9	562.8	1420.5	1243.6	1010.4	1042.6
85°	182.2	225.1	193.0	184.9	254.6	659.3	948.8	710.2	471.7	461.0
87.5°	48.2	42.9	42.9	48.2	107.2	568.2	377.9	302.9	179.6	174.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)