

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: P529104

Luminaire Tested: **GALN-SA4B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16434 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

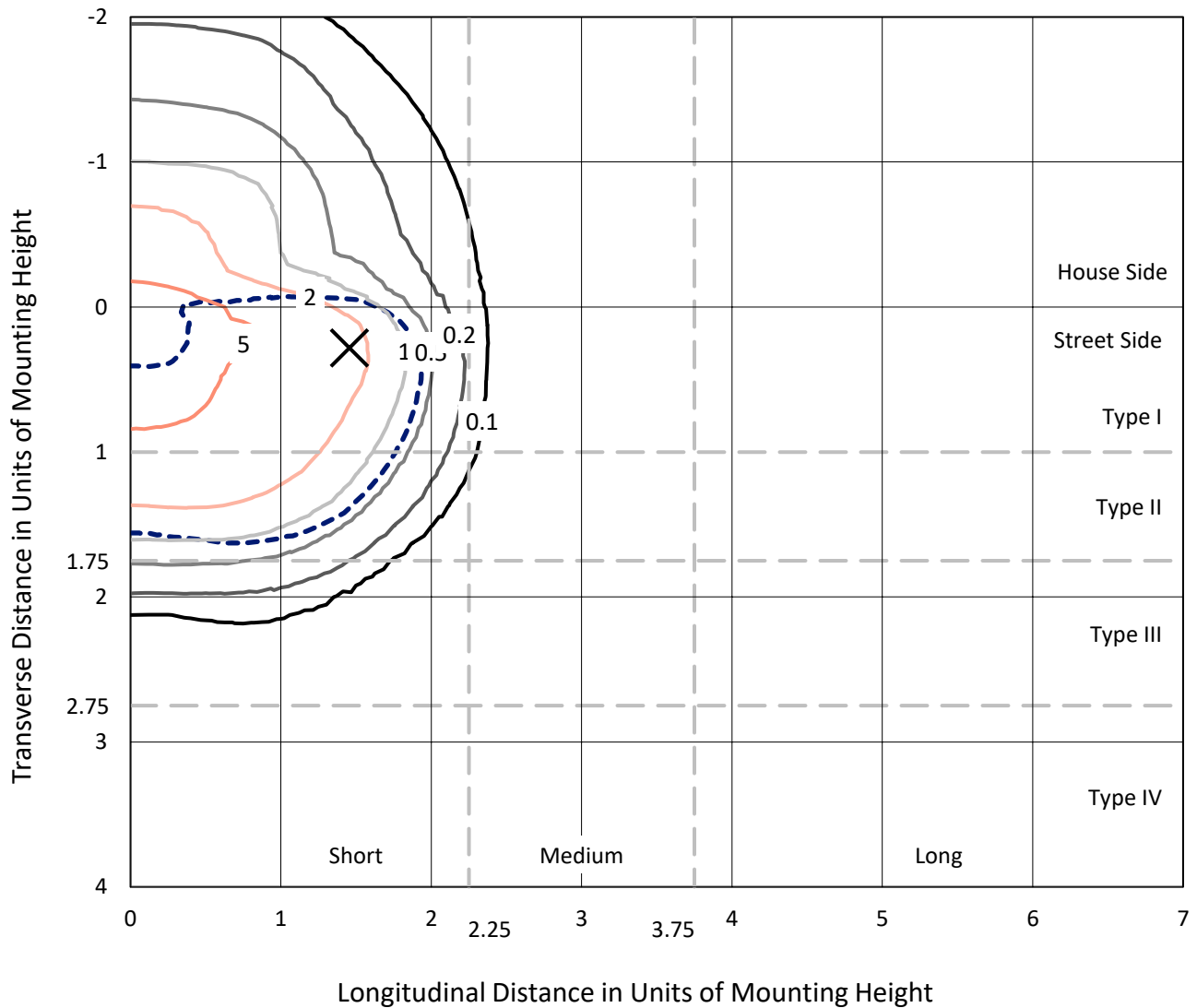
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

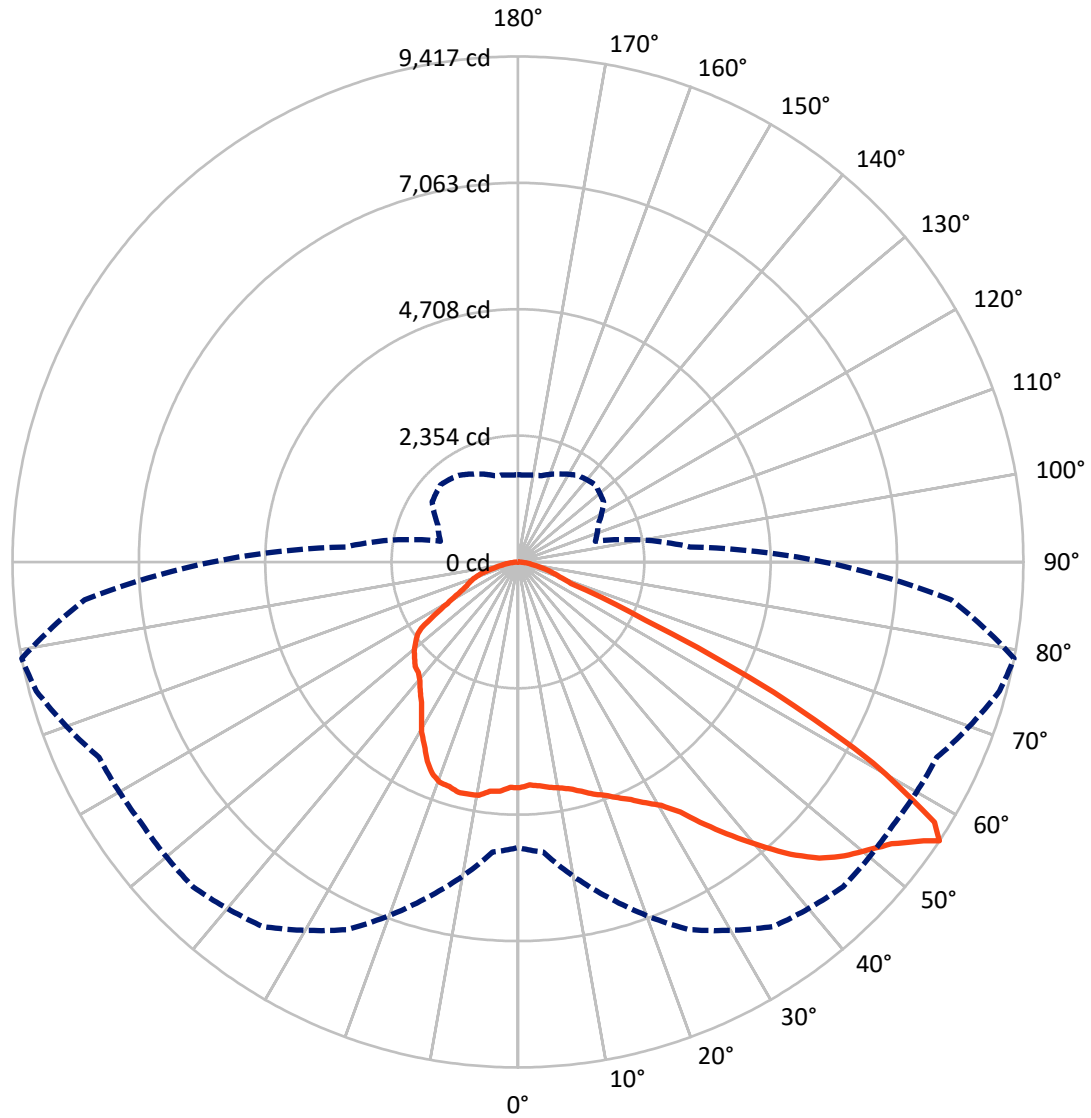
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4853.3	0.0	4853.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11580.7	0.0	11580.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	16434.0	0.0	16434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	2.3
10°-20°	1046.2	6.4
20°-30°	1789.9	10.9
30°-40°	2743.3	16.7
40°-50°	3707.5	22.6
50°-60°	4258.2	25.9
60°-70°	1941.0	11.8
70°-80°	478.6	2.9
80°-90°	87.0	0.5
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°	16434.0	100.0
0°-180°	16434.0	100.0

Coefficient of Utilization



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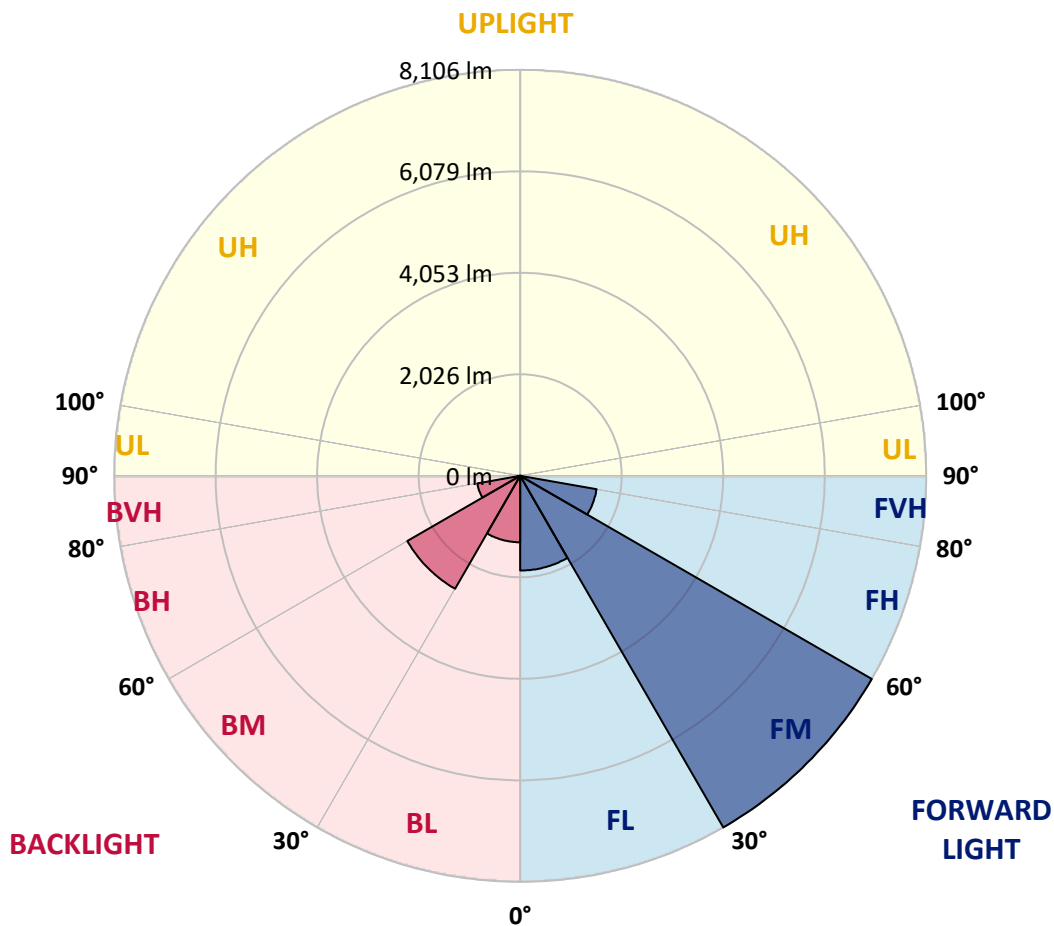
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.9	11.5			
FM (30°-60°)	8105.7	49.3			
FH (60°-80°)	1549.3	9.4			G1/1800
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	1327.6	8.1	B3/2500		
BM (30°-60°)	2603.3	15.8	B3/5000		
BH (60°-80°)	870.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	52.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8
2.5°	4000.1	3989.9	4014.4	4032.9	4055.4	4084.0	4098.4	4106.5	4178.2	4159.8	4215.0
5°	3914.1	3887.5	3905.9	3920.3	3959.2	3994.0	4032.9	4094.3	4159.8	4188.4	4256.0
7.5°	3838.4	3824.0	3819.9	3830.2	3883.4	3928.4	3996.0	4086.1	4192.5	4239.6	4278.5
10°	3713.5	3693.0	3723.7	3791.3	3805.6	3899.8	3977.6	4106.5	4198.7	4280.6	4395.2
12.5°	3658.2	3637.8	3643.9	3682.8	3783.1	3873.2	3965.3	4110.6	4305.1	4337.9	4491.4
15°	3746.3	3725.8	3731.9	3721.7	3817.9	3865.0	4010.3	4192.5	4378.8	4434.1	4597.9
17.5°	3946.9	3948.9	3922.3	3899.8	3877.3	3977.6	4077.9	4241.7	4407.5	4546.7	4669.5
20°	4329.7	4262.1	4208.9	4082.0	4047.2	4090.2	4217.1	4374.7	4524.2	4638.8	4778.0
22.5°	4624.5	4630.6	4554.9	4346.1	4270.3	4288.7	4397.2	4526.2	4690.0	4771.9	4931.5
25°	5052.3	5009.3	4927.4	4761.6	4591.7	4606.0	4685.9	4802.6	4847.6	4904.9	5078.9
27.5°	5443.3	5455.6	5293.9	5138.3	4927.4	4886.5	5029.8	5050.3	4974.5	5083.0	5142.4
30°	5840.5	5830.2	5723.8	5541.6	5334.8	5343.0	5406.5	5306.2	5201.8	5261.1	5302.1
32.5°	6251.9	6135.3	6131.2	5967.4	5809.8	5734.0	5656.2	5705.4	5543.6	5555.9	5517.0
35°	6581.5	6597.9	6503.7	6387.1	6309.3	6176.2	5963.3	6051.3	6020.6	6006.3	5838.4
37.5°	6821.0	6757.6	6804.7	6765.8	6692.1	6526.3	6305.2	6389.1	6403.4	6473.0	6278.6
40°	7017.6	6991.0	7115.8	7136.3	7085.1	6726.9	6329.7	6579.5	6794.4	6945.9	6714.6
42.5°	7111.7	7169.1	7300.1	7457.7	7343.1	6960.2	6456.7	6724.8	7203.9	7443.4	7128.1
45°	7238.7	7165.0	7359.4	7648.1	7650.1	7156.8	6579.5	6921.4	7523.2	7871.2	7410.6
47.5°	7109.7	7146.5	7347.2	7713.6	7807.8	7363.5	6911.1	7199.8	7875.3	8184.4	7672.7
50°	6821.0	6894.7	7261.2	7641.9	7926.5	7582.6	7291.9	7500.7	8200.8	8436.2	7715.6
52.5°	6520.1	6561.1	7134.3	7697.2	7979.7	7865.1	7801.6	7916.3	8598.0	8720.8	7768.9
55°	5701.3	5895.7	6714.6	7672.7	8239.7	8374.8	8325.7	8493.6	9048.3	9171.2	8059.6
56°	5322.5	5424.9	6462.8	7558.0	8290.9	8561.1	8536.5	8612.3	9287.8	9416.8	8104.6
57.5°	4622.4	4630.6	5510.9	7050.3	8098.5	8616.4	8591.8	8651.2	9240.8	9152.7	7709.5
60°	2892.6	3019.5	3750.3	5422.9	6886.6	7994.1	8133.3	7656.3	7791.4	7605.1	5998.1
62.5°	1498.5	1480.1	1965.2	3171.0	4571.2	5723.8	5852.8	5830.2	5621.4	5349.2	3918.2
65°	747.2	751.3	1027.7	1570.2	2341.9	2997.0	3357.3	3396.2	2841.4	2614.2	1858.8
67.5°	542.5	563.0	739.0	960.1	1103.4	1234.4	1512.8	1484.2	1123.9	1068.6	990.8
70°	421.7	440.1	599.8	732.9	665.3	665.3	724.7	749.3	800.4	822.9	849.6
72.5°	307.1	321.4	458.6	505.6	436.0	468.8	542.5	599.8	653.0	661.2	691.9
75°	210.9	223.1	300.9	278.4	262.0	323.4	397.1	450.4	489.3	509.7	528.2
77.5°	137.2	141.3	172.0	145.3	167.9	208.8	257.9	303.0	341.9	358.2	362.3
80°	61.4	67.6	73.7	92.1	116.7	149.4	184.2	221.1	245.7	251.8	264.1
82.5°	34.8	34.8	45.0	65.5	86.0	108.5	133.1	159.7	188.3	194.5	192.4
85°	18.4	18.4	26.6	38.9	53.2	63.5	61.4	63.5	67.6	77.8	75.7
87.5°	6.1	6.1	8.2	8.2	10.2	12.3	10.2	14.3	18.4	18.4	18.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8	4204.8
2.5°	4198.7	4217.1	4192.5	4245.8	4245.8	4235.5	4184.3	4200.7	4213.0	4213.0	4223.2
5°	4278.5	4272.4	4288.7	4225.3	4186.4	4172.1	4088.1	4047.2	4012.4	4010.3	3979.6
7.5°	4323.5	4307.2	4301.0	4253.9	4082.0	3977.6	3797.4	3693.0	3670.5	3590.7	3621.4
10°	4395.2	4425.9	4395.2	4139.3	3899.8	3660.3	3484.2	3322.5	3259.0	3207.9	3177.1
12.5°	4542.6	4528.3	4350.2	4004.2	3668.5	3383.9	3121.9	2952.0	2888.5	2843.5	2839.4
15°	4667.5	4595.8	4323.5	3791.3	3308.2	3005.2	2790.2	2669.5	2640.8	2644.9	2663.3
17.5°	4710.5	4661.3	4184.3	3570.2	3040.0	2683.8	2583.5	2565.1	2591.7	2622.4	2630.6
20°	4778.0	4700.2	4127.0	3269.3	2708.4	2483.2	2477.0	2542.5	2591.7	2636.7	2642.8
22.5°	4919.3	4722.7	3940.7	2984.7	2481.1	2423.8	2483.2	2538.4	2614.2	2651.0	2618.3
25°	4960.2	4673.6	3678.7	2642.8	2337.8	2387.0	2450.4	2526.2	2579.4	2599.9	2614.2
27.5°	4995.0	4597.9	3324.5	2415.6	2292.8	2384.9	2450.4	2513.9	2542.5	2561.0	2577.3
30°	5093.3	4575.3	3017.5	2264.1	2264.1	2344.0	2427.9	2444.3	2483.2	2505.7	2534.3
32.5°	5142.4	4419.8	2702.2	2167.9	2235.5	2364.4	2370.6	2401.3	2403.3	2421.8	2391.1
35°	5271.4	4309.2	2409.5	2098.3	2247.8	2344.0	2374.7	2356.2	2255.9	2206.8	2217.0
37.5°	5365.5	4253.9	2198.6	2090.1	2249.8	2366.5	2382.9	2243.7	2139.3	2057.4	2077.8
40°	5619.4	4116.8	2038.9	2075.8	2268.2	2391.1	2346.0	2194.5	2006.2	1922.3	1907.9
42.5°	5813.9	4018.5	1938.6	2059.4	2282.6	2425.9	2327.6	2096.3	1903.8	1826.0	1846.5
45°	6039.0	3996.0	1885.4	2063.5	2307.1	2444.3	2305.1	2020.5	1815.8	1785.1	1779.0
47.5°	6118.9	3834.3	1828.1	2028.7	2301.0	2438.1	2229.3	1963.2	1783.1	1787.1	1803.5
50°	5985.8	3668.5	1785.1	1957.1	2260.0	2382.9	2110.6	1887.5	1764.6	1815.8	1844.5
52.5°	5815.9	3498.5	1697.1	1860.8	2176.1	2296.9	2055.3	1883.4	1746.2	1729.8	1736.0
55°	5867.1	3359.3	1574.2	1729.8	2041.0	2137.2	1993.9	1844.5	1701.2	1639.8	1660.2
56°	5701.3	3216.0	1494.4	1647.9	1948.9	2034.8	1963.2	1809.7	1664.3	1623.4	1623.4
57.5°	5232.5	2735.0	1390.0	1516.9	1754.4	1856.7	1903.8	1789.2	1623.4	1551.7	1553.8
60°	3858.8	1944.8	1246.7	1336.8	1453.5	1535.3	1754.4	1731.9	1521.0	1471.9	1453.5
62.5°	2378.8	1420.7	1144.3	1179.1	1238.5	1306.1	1531.3	1568.1	1412.5	1359.3	1347.0
65°	1332.7	1087.0	1066.6	1080.9	1109.5	1144.3	1271.3	1353.2	1246.7	1164.8	1160.7
67.5°	974.4	972.4	988.8	1001.0	1013.3	1013.3	1044.0	1076.8	1062.5	997.0	990.8
70°	865.9	872.1	884.4	886.4	890.5	876.2	851.6	841.4	857.7	816.8	808.6
72.5°	714.4	734.9	749.3	751.3	728.8	710.4	677.6	642.8	630.5	622.3	620.3
75°	548.6	563.0	569.1	567.1	558.9	532.3	493.4	458.6	436.0	411.5	423.8
77.5°	370.5	391.0	401.2	401.2	389.0	348.0	329.6	303.0	280.5	253.8	257.9
80°	260.0	274.3	290.7	288.6	268.2	247.7	221.1	196.5	178.1	157.6	155.6
82.5°	194.5	202.7	210.9	206.8	192.4	172.0	153.5	131.0	110.5	96.2	96.2
85°	69.6	75.7	92.1	96.2	104.4	104.4	88.0	73.7	59.4	49.1	49.1
87.5°	20.5	20.5	22.5	22.5	20.5	22.5	18.4	20.5	22.5	14.3	14.3
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)