

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: P528974

Luminaire Tested: **GALN-SA4A-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528974  
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-SA4A-750-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA 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: 15792 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

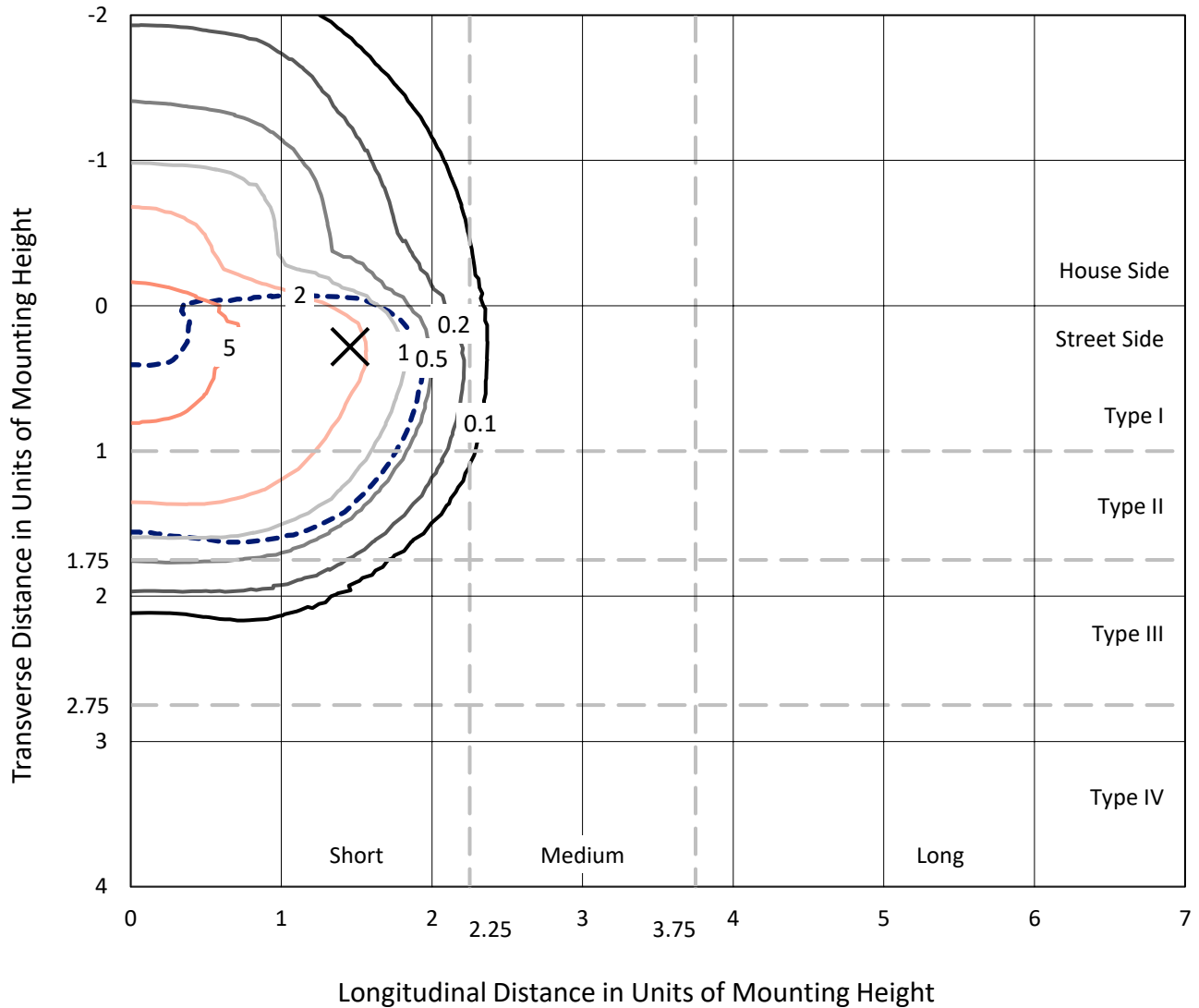
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

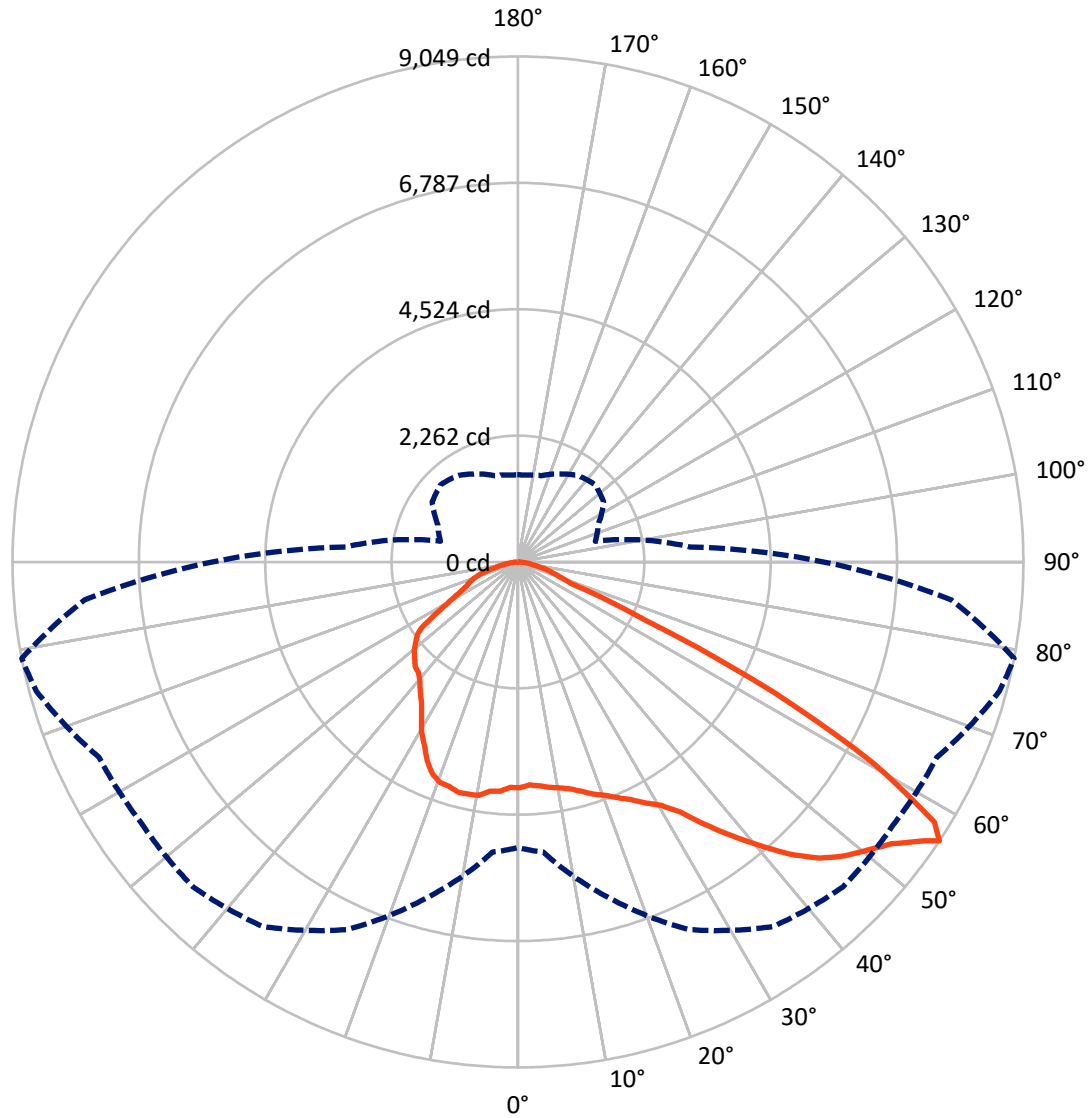
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	4663.7	0.0	4663.7
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	11128.3	0.0	11128.3
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	15792.0	0.0	15792.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.4	2.3
10°-20°	1005.4	6.4
20°-30°	1720.0	10.9
30°-40°	2636.1	16.7
40°-50°	3562.7	22.6
50°-60°	4091.9	25.9
60°-70°	1865.2	11.8
70°-80°	459.9	2.9
80°-90°	83.6	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°	15792.0	100.0
0°-180°	15792.0	100.0

**Coefficient of Utilization**

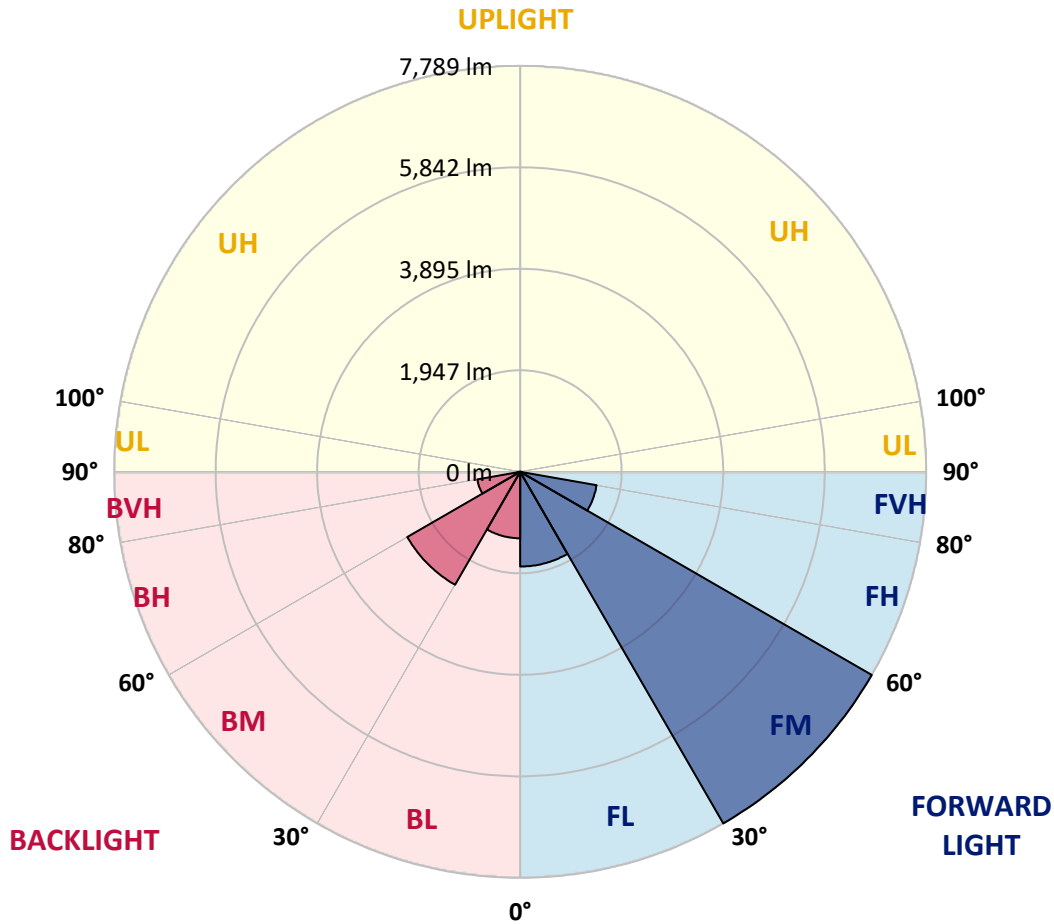


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.0	11.5			
FM (30°-60°)	7789.1	49.3			
FH (60°-80°)	1488.8	9.4			G1/1800
FVH (80°-90°)	33.4	0.2			G1/100
BL (0°-30°)	1275.7	8.1	B3/2500		
BM (30°-60°)	2501.6	15.8	B3/5000		
BH (60°-80°)	836.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	50.2	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°	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5
2.5°	3843.8	3834.0	3857.6	3875.3	3896.9	3924.5	3938.3	3946.1	4015.0	3997.3	4050.4
5°	3761.2	3735.6	3753.3	3767.1	3804.5	3837.9	3875.3	3934.3	3997.3	4024.8	4089.7
7.5°	3688.4	3674.7	3670.7	3680.6	3731.7	3775.0	3839.9	3926.5	4028.7	4074.0	4111.4
10°	3568.4	3548.8	3578.3	3643.2	3657.0	3747.4	3822.2	3946.1	4034.6	4113.3	4223.5
12.5°	3515.3	3495.6	3501.5	3538.9	3635.3	3721.9	3810.4	3950.1	4136.9	4168.4	4315.9
15°	3599.9	3580.2	3586.1	3576.3	3668.8	3714.0	3853.7	4028.7	4207.8	4260.9	4418.2
17.5°	3792.7	3794.7	3769.1	3747.4	3725.8	3822.2	3918.6	4076.0	4235.3	4369.1	4487.1
20°	4160.5	4095.6	4044.5	3922.5	3889.1	3930.4	4052.4	4203.8	4347.4	4457.6	4591.4
22.5°	4443.8	4449.7	4376.9	4176.3	4103.5	4121.2	4225.5	4349.4	4506.8	4585.5	4738.9
25°	4855.0	4813.6	4735.0	4575.6	4412.3	4426.1	4502.8	4615.0	4658.2	4713.3	4880.5
27.5°	5230.7	5242.5	5087.1	4937.6	4735.0	4695.6	4833.3	4853.0	4780.2	4884.5	4941.5
30°	5612.3	5602.5	5500.2	5325.1	5126.4	5134.3	5195.3	5098.9	4998.6	5055.6	5094.9
32.5°	6007.7	5895.6	5891.6	5734.3	5582.8	5510.0	5435.3	5482.5	5327.1	5338.9	5301.5
35°	6324.4	6340.2	6249.7	6137.5	6062.8	5934.9	5730.3	5814.9	5785.4	5771.6	5610.3
37.5°	6554.6	6493.6	6538.8	6501.5	6430.6	6271.3	6058.9	6139.5	6153.3	6220.2	6033.3
40°	6743.4	6717.9	6837.8	6857.5	6808.3	6464.1	6082.5	6322.5	6529.0	6674.6	6452.3
42.5°	6833.9	6889.0	7014.9	7166.4	7056.2	6688.3	6204.4	6462.1	6922.4	7152.6	6849.7
45°	6955.9	6885.1	7071.9	7349.3	7351.3	6877.2	6322.5	6651.0	7229.3	7563.7	7121.1
47.5°	6831.9	6867.4	7060.1	7412.3	7502.7	7075.9	6641.1	6918.5	7567.7	7864.7	7372.9
50°	6554.6	6625.4	6977.5	7343.4	7616.8	7286.4	7007.0	7207.7	7880.4	8106.7	7414.2
52.5°	6265.4	6304.7	6855.6	7396.5	7668.0	7557.8	7496.8	7607.0	8262.1	8380.1	7465.4
55°	5478.5	5665.4	6452.3	7372.9	7917.8	8047.7	8000.4	8161.7	8694.8	8812.9	7744.7
56°	5114.6	5213.0	6210.3	7262.8	7967.0	8226.7	8203.1	8275.8	8925.0	9048.9	7788.0
57.5°	4441.8	4449.7	5295.6	6774.9	7782.1	8279.8	8256.2	8313.2	8879.8	8795.2	7408.3
60°	2779.6	2901.6	3603.8	5211.0	6617.5	7681.8	7815.5	7357.2	7487.0	7308.0	5763.8
62.5°	1440.0	1422.3	1888.5	3047.1	4392.7	5500.2	5624.1	5602.5	5401.8	5140.2	3765.1
65°	718.0	721.9	987.5	1508.8	2250.4	2879.9	3226.1	3263.5	2730.4	2512.1	1786.2
67.5°	521.3	541.0	710.1	922.6	1060.3	1186.2	1453.7	1426.2	1080.0	1026.9	952.1
70°	405.2	422.9	576.4	704.2	639.3	639.3	696.4	720.0	769.2	790.8	816.4
72.5°	295.1	308.8	440.6	485.9	419.0	450.5	521.3	576.4	627.5	635.4	664.9
75°	202.6	214.4	289.2	267.5	251.8	310.8	381.6	432.8	470.2	489.8	507.5
77.5°	131.8	135.7	165.2	139.7	161.3	200.7	247.9	291.1	328.5	344.3	348.2
80°	59.0	64.9	70.8	88.5	112.1	143.6	177.0	212.5	236.1	242.0	253.8
82.5°	33.4	33.4	43.3	62.9	82.6	104.3	127.9	153.4	181.0	186.9	184.9
85°	17.7	17.7	25.6	37.4	51.1	61.0	59.0	61.0	64.9	74.8	72.8
87.5°	5.9	5.9	7.9	7.9	9.8	11.8	9.8	13.8	17.7	17.7	17.7
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°	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5	4040.5
2.5°	4034.6	4052.4	4028.7	4079.9	4079.9	4070.1	4020.9	4036.6	4048.4	4048.4	4058.3
5°	4111.4	4105.5	4121.2	4060.2	4022.8	4009.1	3928.4	3889.1	3855.6	3853.7	3824.2
7.5°	4154.6	4138.9	4133.0	4087.8	3922.5	3822.2	3649.1	3548.8	3527.1	3450.4	3479.9
10°	4223.5	4253.0	4223.5	3977.6	3747.4	3517.3	3348.1	3192.7	3131.7	3082.5	3053.0
12.5°	4365.1	4351.4	4180.2	3847.8	3525.2	3251.7	2999.9	2836.6	2775.7	2732.4	2728.5
15°	4485.1	4416.3	4154.6	3643.2	3178.9	2887.8	2681.2	2565.2	2537.6	2541.6	2559.3
17.5°	4526.4	4479.2	4020.9	3430.7	2921.2	2578.9	2482.6	2464.9	2490.4	2519.9	2527.8
20°	4591.4	4516.6	3965.8	3141.6	2602.6	2386.2	2380.3	2443.2	2490.4	2533.7	2539.6
22.5°	4727.1	4538.2	3786.8	2868.1	2384.2	2329.1	2386.2	2439.3	2512.1	2547.5	2516.0
25°	4766.4	4491.0	3535.0	2539.6	2246.5	2293.7	2354.7	2427.5	2478.6	2498.3	2512.1
27.5°	4799.9	4418.2	3194.7	2321.2	2203.2	2291.7	2354.7	2415.7	2443.2	2460.9	2476.7
30°	4894.3	4396.6	2899.6	2175.7	2175.7	2252.4	2333.1	2348.8	2386.2	2407.8	2435.3
32.5°	4941.5	4247.1	2596.7	2083.2	2148.1	2272.1	2278.0	2307.5	2309.4	2327.2	2297.6
35°	5065.4	4140.9	2315.3	2016.3	2159.9	2252.4	2281.9	2264.2	2167.8	2120.6	2130.4
37.5°	5155.9	4087.8	2112.7	2008.5	2161.9	2274.0	2289.8	2156.0	2055.7	1977.0	1996.7
40°	5399.9	3956.0	1959.3	1994.7	2179.6	2297.6	2254.4	2108.8	1927.8	1847.2	1833.4
42.5°	5586.7	3861.5	1862.9	1979.0	2193.4	2331.1	2236.7	2014.4	1829.5	1754.7	1774.4
45°	5803.1	3839.9	1811.8	1982.9	2217.0	2348.8	2215.0	1941.6	1744.9	1715.4	1709.5
47.5°	5879.8	3684.5	1756.7	1949.5	2211.1	2342.9	2142.2	1886.5	1713.4	1717.3	1733.1
50°	5752.0	3525.2	1715.4	1880.6	2171.7	2289.8	2028.1	1813.7	1695.7	1744.9	1772.4
52.5°	5588.7	3361.9	1630.8	1788.1	2091.1	2207.2	1975.0	1809.8	1678.0	1662.3	1668.2
55°	5637.9	3228.1	1512.7	1662.3	1961.3	2053.7	1916.0	1772.4	1634.7	1575.7	1595.4
56°	5478.5	3090.4	1436.0	1583.6	1872.7	1955.4	1886.5	1739.0	1599.3	1560.0	1560.0
57.5°	5028.1	2628.1	1335.7	1457.7	1685.9	1784.2	1829.5	1719.3	1560.0	1491.1	1493.1
60°	3708.1	1868.8	1198.0	1284.6	1396.7	1475.4	1685.9	1664.2	1461.6	1414.4	1396.7
62.5°	2285.8	1365.2	1099.6	1133.1	1190.1	1255.0	1471.4	1506.8	1357.3	1306.2	1294.4
65°	1280.6	1044.6	1024.9	1038.7	1066.2	1099.6	1221.6	1300.3	1198.0	1119.3	1115.4
67.5°	936.4	934.4	950.1	961.9	973.7	973.7	1003.3	1034.7	1021.0	958.0	952.1
70°	832.1	838.0	849.8	851.8	855.7	841.9	818.3	808.5	824.2	784.9	777.0
72.5°	686.5	706.2	720.0	721.9	700.3	682.6	651.1	617.7	605.9	598.0	596.0
75°	527.2	541.0	546.9	544.9	537.0	511.5	474.1	440.6	419.0	395.4	407.2
77.5°	356.1	375.7	385.6	385.6	373.8	334.4	316.7	291.1	269.5	243.9	247.9
80°	249.8	263.6	279.3	277.4	257.7	238.0	212.5	188.8	171.1	151.5	149.5
82.5°	186.9	194.7	202.6	198.7	184.9	165.2	147.5	125.9	106.2	92.5	92.5
85°	66.9	72.8	88.5	92.5	100.3	100.3	84.6	70.8	57.0	47.2	47.2
87.5°	19.7	19.7	21.6	21.6	19.7	21.6	17.7	19.7	21.6	13.8	13.8
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)