

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: P532146

Luminaire Tested: **GALN-SA7C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532146
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-SA7C-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA 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: 35749 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

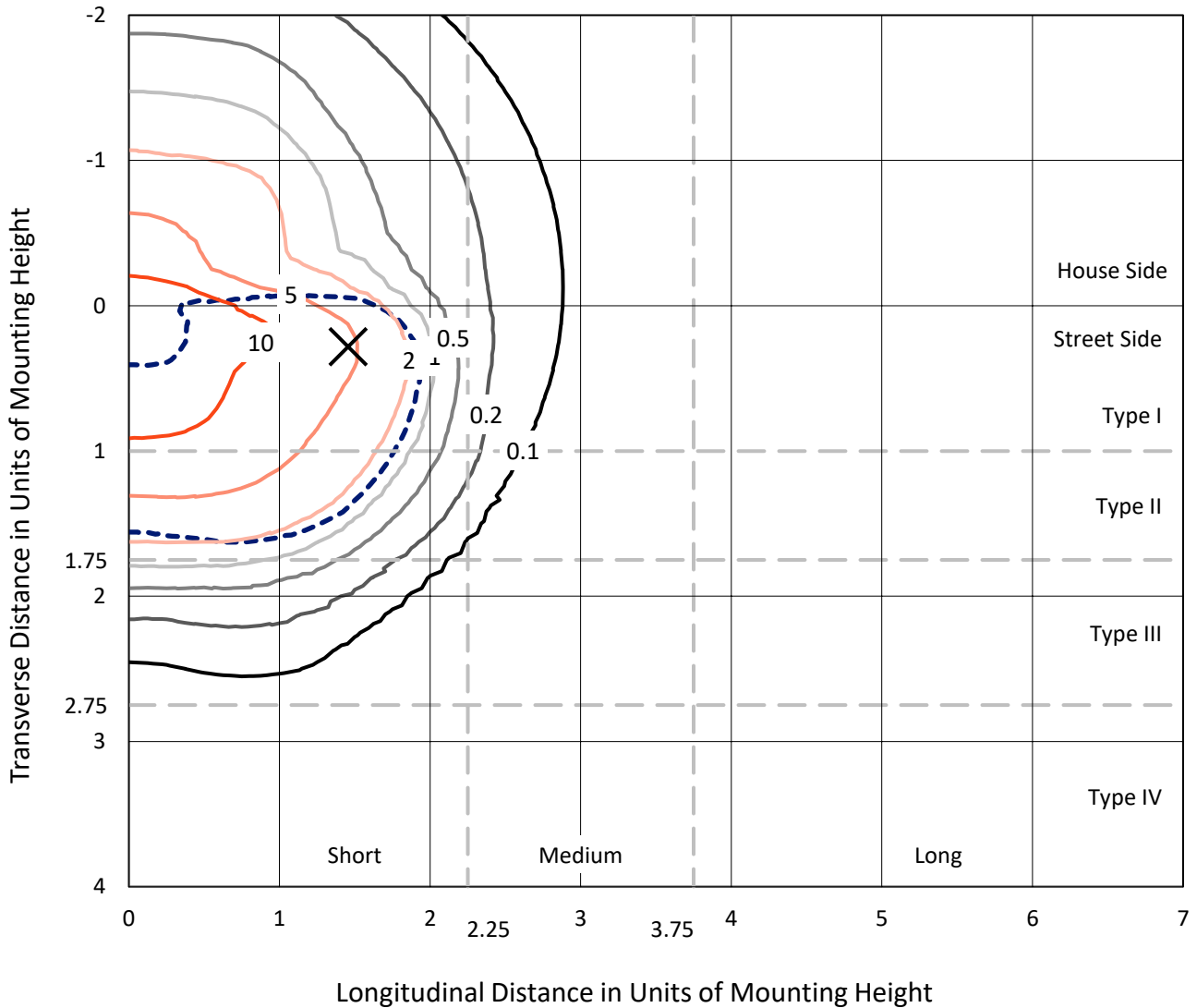
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532146
 CATALOG NUMBER: GALN-SA7C-727-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

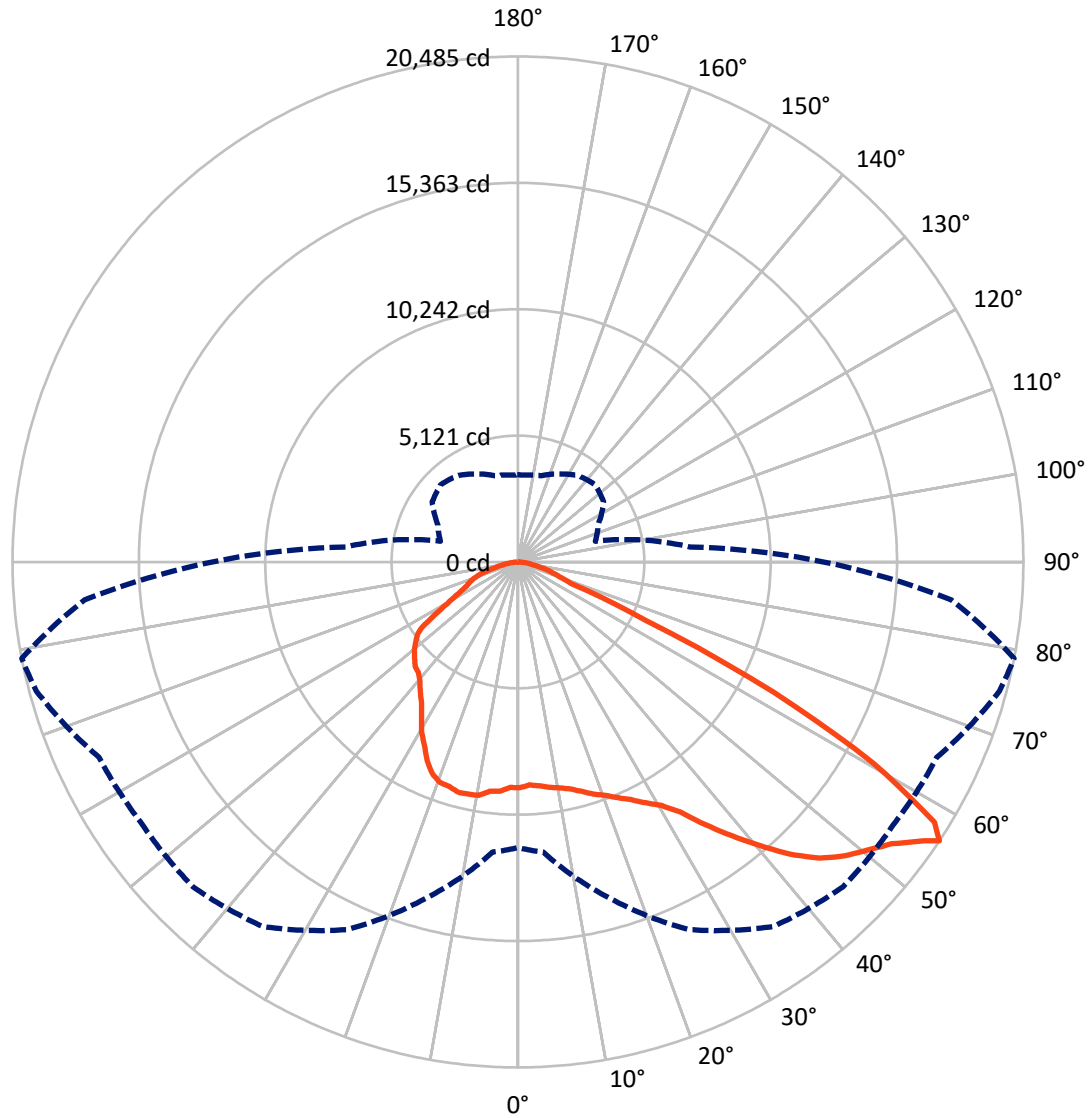
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

REPORT NUMBER: P532146
CATALOG NUMBER: GALN-SA7C-727-U-T3R-GRSWH

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	10557.5	0.0	10557.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	25191.5	0.0	25191.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	35749.0	0.0	35749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.6	2.3
10°-20°	2275.9	6.4
20°-30°	3893.6	10.9
30°-40°	5967.5	16.7
40°-50°	8065.0	22.6
50°-60°	9262.9	25.9
60°-70°	4222.3	11.8
70°-80°	1041.0	2.9
80°-90°	189.2	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°	35749.0	100.0
0°-180°	35749.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532146

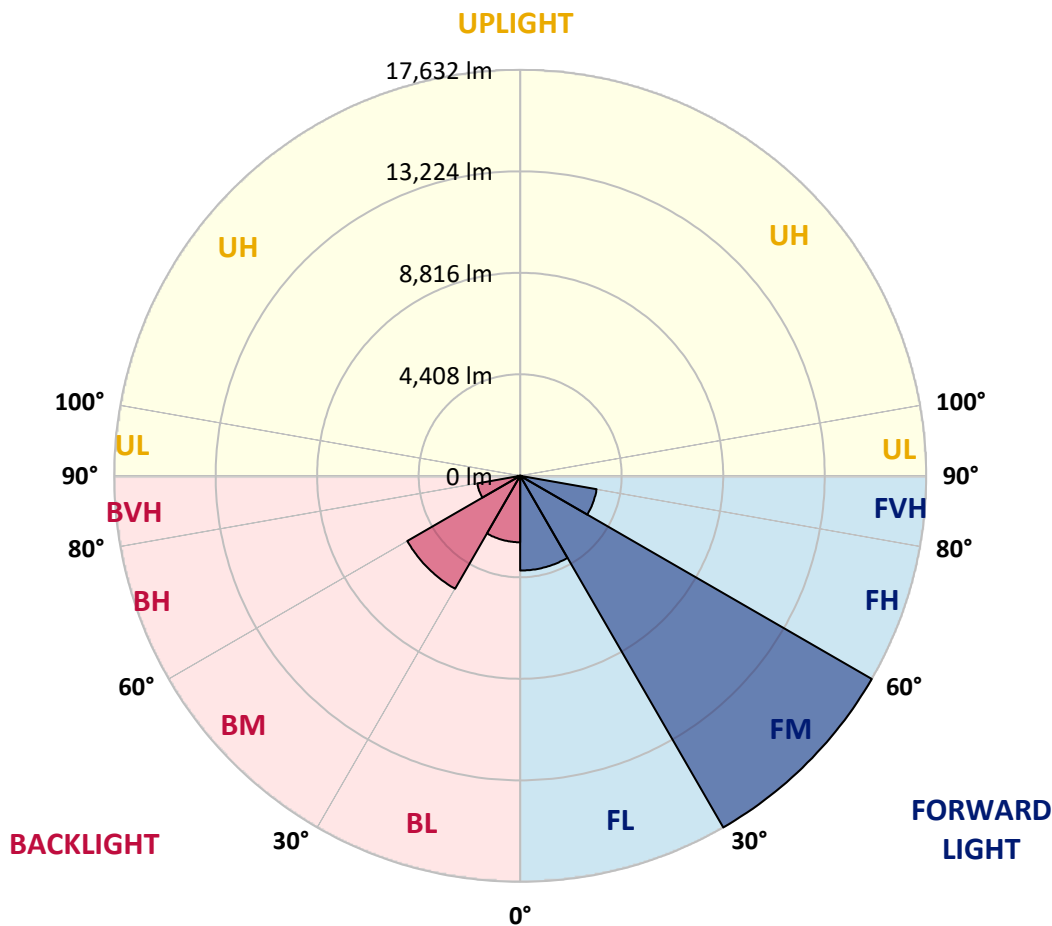
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4113.2	11.5			
FM (30°-60°)	17632.5	49.3			
FH (60°-80°)	3370.3	9.4			G2/5000
FVH (80°-90°)	75.5	0.2			G1/100
BL (0°-30°)	2887.9	8.1	B4/5000		
BM (30°-60°)	5662.9	15.8	B4/8500		
BH (60°-80°)	1893.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	113.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P532146

CATALOG NUMBER: GALN-SA7C-727-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8
2.5°	8701.4	8679.2	8732.6	8772.7	8821.7	8884.0	8915.2	8933.0	9088.9	9048.8	9169.0
5°	8514.4	8456.5	8496.6	8527.8	8612.4	8688.1	8772.7	8906.3	9048.8	9111.1	9258.1
7.5°	8349.6	8318.5	8309.6	8331.8	8447.6	8545.6	8692.5	8888.5	9120.0	9222.5	9307.1
10°	8078.0	8033.5	8100.3	8247.2	8278.4	8483.2	8652.5	8933.0	9133.4	9311.5	9560.9
12.5°	7957.8	7913.2	7926.6	8011.2	8229.4	8425.3	8625.7	8941.9	9365.0	9436.2	9770.2
15°	8149.2	8104.7	8118.1	8095.8	8305.1	8407.5	8723.7	9120.0	9525.3	9645.5	10001.8
17.5°	8585.7	8590.1	8532.2	8483.2	8434.3	8652.5	8870.7	9226.9	9587.6	9890.4	10157.6
20°	9418.4	9271.4	9155.7	8879.6	8803.9	8897.4	9173.5	9516.4	9841.4	10090.8	10393.6
22.5°	10059.6	10073.0	9908.2	9454.0	9289.3	9329.3	9565.3	9845.9	10202.1	10380.3	10727.6
25°	10990.4	10896.8	10718.7	10358.0	9988.4	10019.6	10193.2	10447.1	10545.0	10669.7	11048.2
27.5°	11840.9	11867.6	11515.8	11177.4	10718.7	10629.6	10941.4	10985.9	10821.1	11057.2	11186.3
30°	12704.8	12682.5	12451.0	12054.7	11604.9	11622.7	11760.7	11542.5	11315.4	11444.6	11533.6
32.5°	13599.9	13346.1	13337.2	12980.9	12638.0	12473.3	12304.0	12410.9	12059.1	12085.8	12001.2
35°	14316.9	14352.5	14147.6	13893.8	13724.6	13435.1	12972.0	13163.5	13096.7	13065.5	12700.4
37.5°	14837.9	14699.8	14802.2	14717.6	14557.3	14196.6	13715.7	13898.3	13929.4	14080.8	13657.8
40°	15265.4	15207.5	15479.1	15523.7	15412.3	14633.0	13769.1	14312.4	14780.0	15109.5	14606.3
42.5°	15470.2	15594.9	15879.9	16222.8	15973.4	15140.7	14045.2	14628.6	15670.6	16191.6	15505.8
45°	15746.3	15586.0	16009.0	16636.9	16641.4	15568.2	14312.4	15056.1	16365.3	17122.3	16120.4
47.5°	15465.8	15545.9	15982.3	16779.4	16984.3	16018.0	15033.8	15661.7	17131.2	17803.7	16690.4
50°	14837.9	14998.2	15795.3	16623.6	17242.6	16494.4	15862.1	16316.3	17839.3	18351.4	16783.9
52.5°	14183.3	14272.3	15519.2	16743.8	17358.3	17109.0	16970.9	17220.3	18703.2	18970.4	16899.7
55°	12402.0	12825.0	14606.3	16690.4	17923.9	18217.8	18110.9	18476.1	19682.9	19950.1	17532.0
56°	11578.2	11800.8	14058.6	16441.0	18035.2	18623.0	18569.6	18734.4	20203.9	20484.5	17630.0
57.5°	10055.2	10073.0	11987.9	15336.6	17616.6	18743.3	18689.8	18819.0	20101.5	19910.0	16770.5
60°	6292.3	6568.4	8158.2	11796.4	14980.4	17389.5	17692.3	16654.8	16948.7	16543.4	13047.7
62.5°	3259.7	3219.6	4275.0	6897.9	9943.9	12451.0	12731.5	12682.5	12228.3	11636.1	8523.3
65°	1625.4	1634.3	2235.5	3415.6	5094.4	6519.4	7303.2	7387.8	6181.0	5686.7	4043.5
67.5°	1180.1	1224.6	1607.6	2088.5	2400.2	2685.2	3290.9	3228.5	2444.8	2324.5	2155.3
70°	917.3	957.4	1304.8	1594.2	1447.3	1447.3	1576.4	1629.8	1741.2	1790.2	1848.1
72.5°	668.0	699.1	997.5	1099.9	948.5	1019.8	1180.1	1304.8	1420.6	1438.4	1505.2
75°	458.7	485.4	654.6	605.6	570.0	703.6	863.9	979.7	1064.3	1108.8	1148.9
77.5°	298.4	307.3	374.1	316.2	365.2	454.2	561.1	659.1	743.7	779.3	788.2
80°	133.6	147.0	160.3	200.4	253.8	325.1	400.8	480.9	534.4	547.7	574.5
82.5°	75.7	75.7	98.0	142.5	187.0	236.0	289.5	347.3	409.7	423.0	418.6
85°	40.1	40.1	57.9	84.6	115.8	138.0	133.6	138.0	147.0	169.2	164.8
87.5°	13.4	13.4	17.8	17.8	22.3	26.7	22.3	31.2	40.1	40.1	40.1
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: P532146

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8	9146.8
2.5°	9133.4	9173.5	9120.0	9235.8	9235.8	9213.6	9102.2	9137.8	9164.6	9164.6	9186.8
5°	9307.1	9293.7	9329.3	9191.3	9106.7	9075.5	8892.9	8803.9	8728.2	8723.7	8656.9
7.5°	9405.0	9369.4	9356.1	9253.6	8879.6	8652.5	8260.6	8033.5	7984.5	7810.8	7877.6
10°	9560.9	9627.7	9560.9	9004.3	8483.2	7962.2	7579.2	7227.4	7089.4	6978.1	6911.3
12.5°	9881.5	9850.3	9462.9	8710.3	7980.0	7361.0	6791.0	6421.4	6283.4	6185.4	6176.5
15°	10153.2	9997.3	9405.0	8247.2	7196.3	6537.2	6069.6	5806.9	5744.6	5753.5	5793.5
17.5°	10246.7	10139.8	9102.2	7766.3	6612.9	5838.1	5619.9	5579.8	5637.7	5704.5	5722.3
20°	10393.6	10224.4	8977.5	7111.7	5891.5	5401.7	5388.3	5530.8	5637.7	5735.6	5749.0
22.5°	10700.9	10273.4	8572.3	6492.7	5397.2	5272.5	5401.7	5521.9	5686.7	5766.8	5695.6
25°	10790.0	10166.5	8002.3	5749.0	5085.5	5192.4	5330.4	5495.2	5611.0	5655.5	5686.7
27.5°	10865.7	10001.8	7231.9	5254.7	4987.5	5187.9	5330.4	5468.5	5530.8	5570.9	5606.5
30°	11079.4	9952.8	6563.9	4925.2	4925.2	5098.8	5281.4	5317.1	5401.7	5450.6	5513.0
32.5°	11186.3	9614.3	5878.1	4715.9	4862.8	5143.4	5156.7	5223.5	5228.0	5268.1	5201.3
35°	11466.8	9373.9	5241.3	4564.5	4889.5	5098.8	5165.6	5125.6	4907.4	4800.5	4822.8
37.5°	11671.7	9253.6	4782.7	4546.7	4894.0	5147.8	5183.5	4880.6	4653.5	4475.4	4519.9
40°	12223.9	8955.3	4435.3	4515.5	4934.1	5201.3	5103.3	4773.8	4364.1	4181.5	4150.3
42.5°	12646.9	8741.5	4217.1	4479.9	4965.3	5277.0	5063.2	4560.0	4141.4	3972.2	4016.7
45°	13136.8	8692.5	4101.3	4488.8	5018.7	5317.1	5014.2	4395.3	3949.9	3883.1	3869.8
47.5°	13310.4	8340.7	3976.7	4413.1	5005.3	5303.7	4849.5	4270.6	3878.7	3887.6	3923.2
50°	13021.0	7980.0	3883.1	4257.2	4916.3	5183.5	4591.2	4105.8	3838.6	3949.9	4012.3
52.5°	12651.4	7610.4	3691.7	4047.9	4733.7	4996.4	4471.0	4096.9	3798.5	3762.9	3776.3
55°	12762.7	7307.6	3424.5	3762.9	4439.8	4649.1	4337.4	4012.3	3700.6	3567.0	3611.5
56°	12402.0	6995.9	3250.8	3584.8	4239.4	4426.4	4270.6	3936.6	3620.4	3531.3	3531.3
57.5°	11382.2	5949.4	3023.7	3299.8	3816.3	4039.0	4141.4	3892.0	3531.3	3375.5	3379.9
60°	8394.2	4230.5	2712.0	2907.9	3161.7	3339.9	3816.3	3767.4	3308.7	3201.8	3161.7
62.5°	5174.6	3090.5	2489.3	2565.0	2694.2	2841.1	3331.0	3411.1	3072.7	2956.9	2930.2
65°	2899.0	2364.6	2320.1	2351.3	2413.6	2489.3	2765.4	2943.5	2712.0	2533.8	2524.9
67.5°	2119.7	2115.2	2150.9	2177.6	2204.3	2204.3	2271.1	2342.4	2311.2	2168.7	2155.3
70°	1883.7	1897.0	1923.8	1928.2	1937.1	1905.9	1852.5	1830.2	1865.9	1776.8	1759.0
72.5°	1554.1	1598.7	1629.8	1634.3	1585.3	1545.2	1474.0	1398.3	1371.6	1353.8	1349.3
75°	1193.4	1224.6	1238.0	1233.5	1215.7	1157.8	1073.2	997.5	948.5	895.1	921.8
77.5°	806.0	850.6	872.8	872.8	846.1	757.0	717.0	659.1	610.1	552.2	561.1
80°	565.5	596.7	632.3	627.9	583.4	538.8	480.9	427.5	387.4	342.9	338.4
82.5°	423.0	440.9	458.7	449.8	418.6	374.1	334.0	285.0	240.5	209.3	209.3
85°	151.4	164.8	200.4	209.3	227.1	227.1	191.5	160.3	129.1	106.9	106.9
87.5°	44.5	44.5	49.0	49.0	44.5	49.0	40.1	44.5	49.0	31.2	31.2
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)