

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: P532224

Luminaire Tested: **GALN-SA7C-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532224
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-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 42747 lumens
Efficiency: N/A
Efficacy: 113.4 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

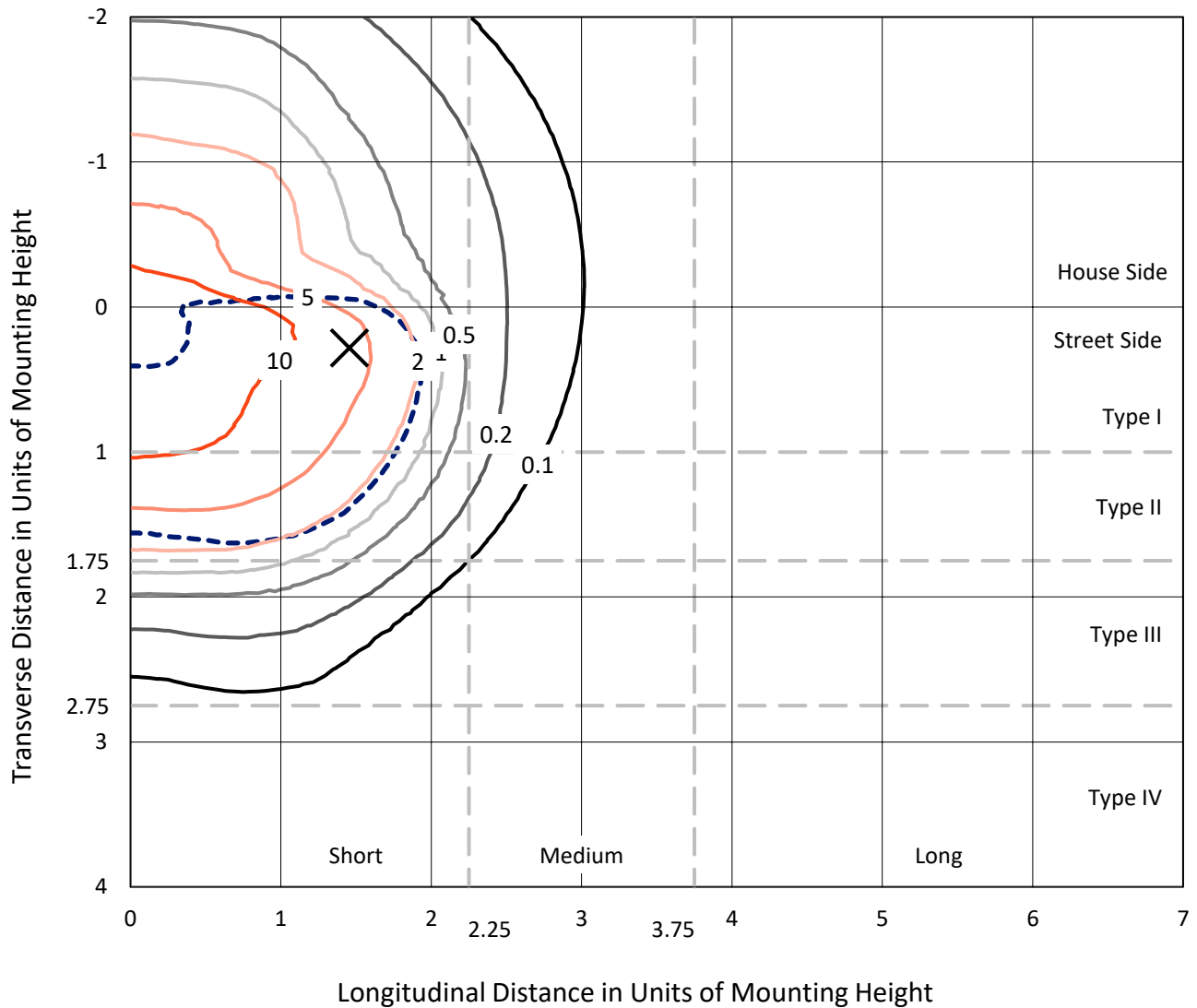
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

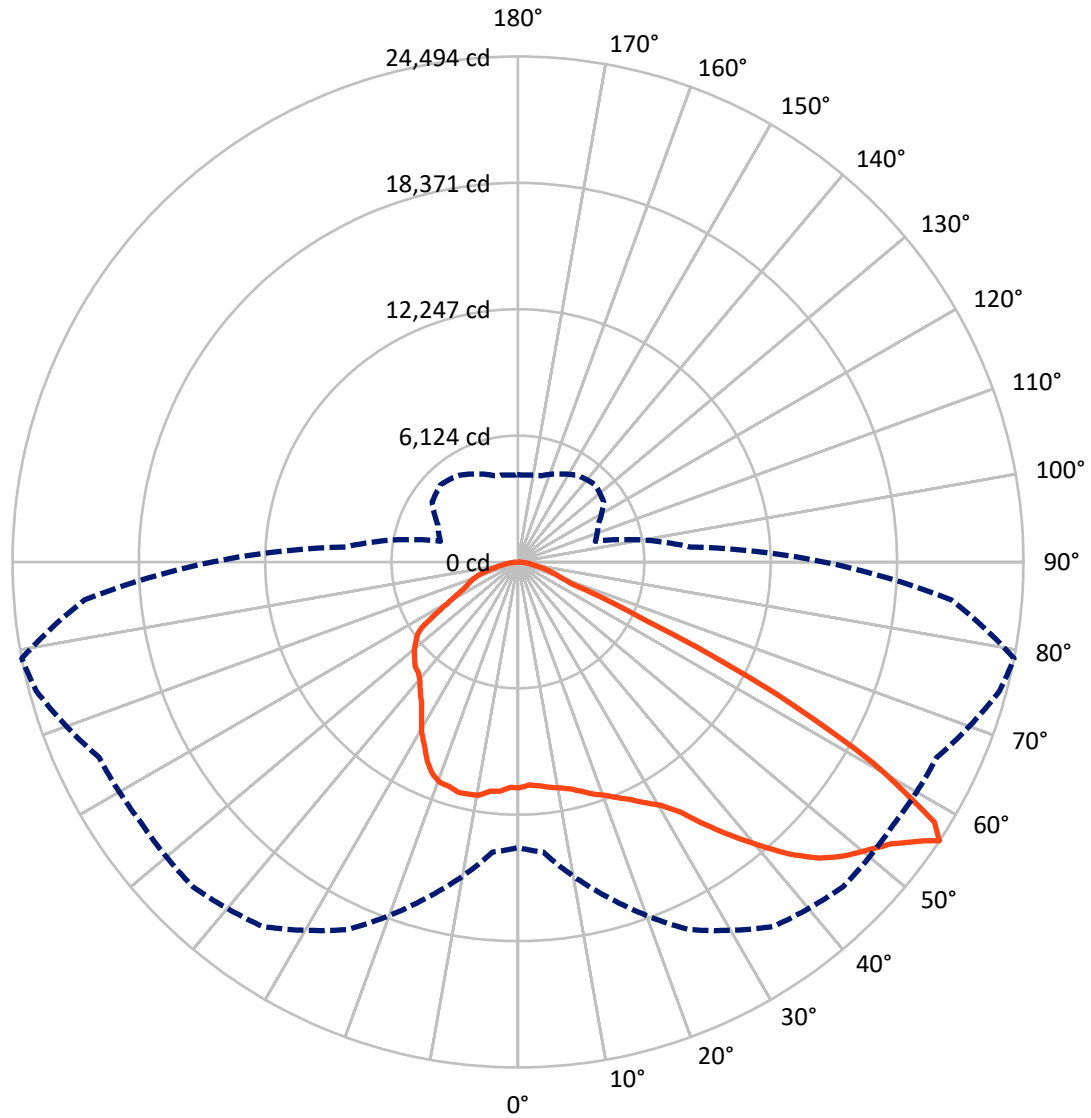
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	12624.1	0.0	12624.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	30122.9	0.0	30122.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	42747.0	0.0	42747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.4	2.3
10°-20°	2721.4	6.4
20°-30°	4655.8	10.9
30°-40°	7135.6	16.7
40°-50°	9643.7	22.6
50°-60°	11076.2	25.9
60°-70°	5048.8	11.8
70°-80°	1244.8	2.9
80°-90°	226.2	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°	42747.0	100.0
0°-180°	42747.0	100.0

Coefficient of Utilization

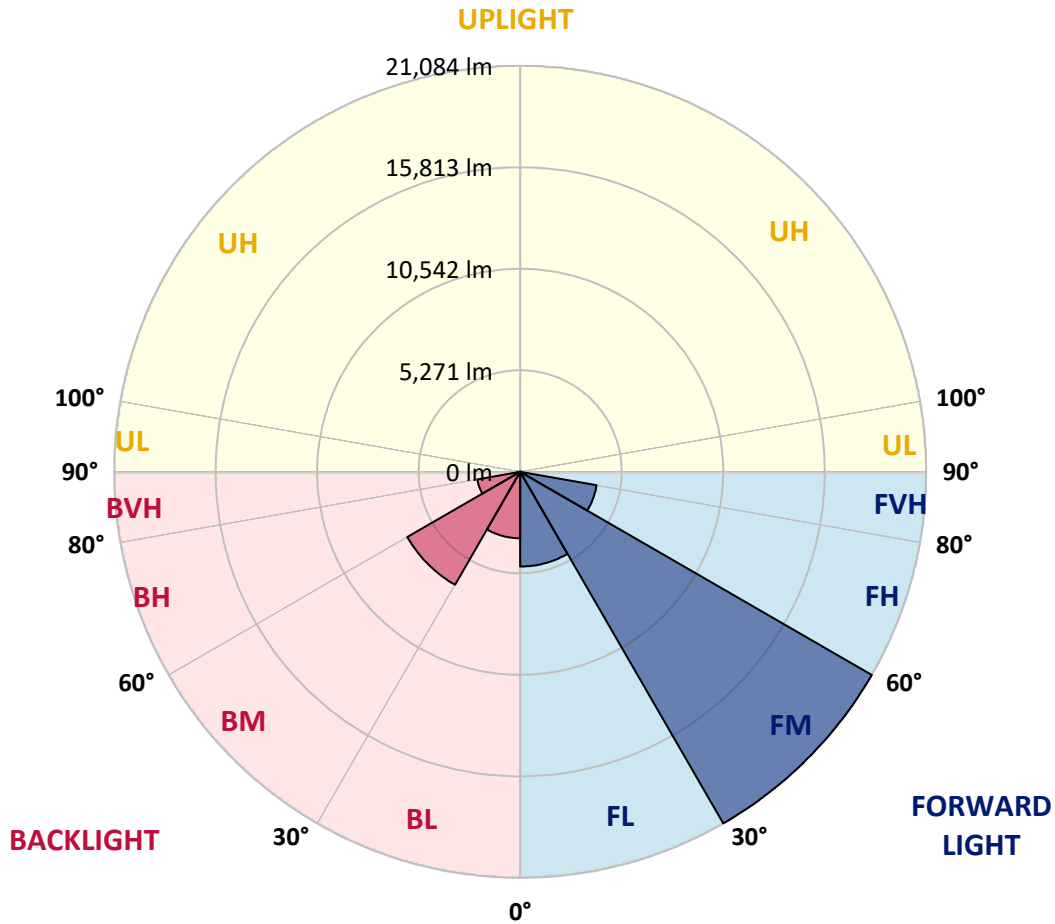


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4918.4	11.5			
FM (30°-60°)	21084.1	49.3			
FH (60°-80°)	4030.1	9.4			G2/5000
FVH (80°-90°)	90.3	0.2			G1/100
BL (0°-30°)	3453.2	8.1	B4/5000		
BM (30°-60°)	6771.4	15.8	B4/8500		
BH (60°-80°)	2263.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	135.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3
2.5°	10404.8	10378.2	10442.1	10490.0	10548.5	10623.1	10660.4	10681.7	10868.0	10820.1	10963.9
5°	10181.1	10111.9	10159.8	10197.1	10298.3	10388.8	10490.0	10649.7	10820.1	10894.7	11070.4
7.5°	9984.1	9946.8	9936.2	9962.8	10101.3	10218.4	10394.1	10628.4	10905.3	11027.8	11129.0
10°	9659.3	9606.0	9685.9	9861.6	9898.9	10143.9	10346.2	10681.7	10921.3	11134.3	11432.5
12.5°	9515.5	9462.3	9478.3	9579.4	9840.3	10074.6	10314.3	10692.3	11198.2	11283.4	11682.7
15°	9744.5	9691.2	9707.2	9680.6	9930.9	10053.3	10431.4	10905.3	11389.9	11533.6	11959.6
17.5°	10266.3	10271.7	10202.4	10143.9	10085.3	10346.2	10607.1	11033.1	11464.4	11826.5	12146.0
20°	11262.1	11086.4	10947.9	10617.8	10527.3	10639.1	10969.2	11379.2	11767.9	12066.1	12428.2
22.5°	12028.9	12044.8	11847.8	11304.7	11107.7	11155.6	11437.8	11773.3	12199.3	12412.3	12827.6
25°	13141.8	13029.9	12816.9	12385.6	11943.7	11980.9	12188.6	12492.1	12609.3	12758.4	13211.0
27.5°	14158.8	14190.8	13770.1	13365.4	12816.9	12710.4	13083.2	13136.4	12939.4	13221.6	13376.1
30°	15191.8	15165.2	14888.3	14414.4	13876.6	13897.9	14063.0	13802.0	13530.5	13684.9	13791.4
32.5°	16262.1	15958.6	15948.0	15522.0	15112.0	14914.9	14712.6	14840.4	14419.7	14451.7	14350.5
35°	17119.4	17162.0	16917.1	16613.6	16411.2	16065.1	15511.3	15740.3	15660.4	15623.1	15186.5
37.5°	17742.4	17577.4	17699.8	17598.7	17407.0	16975.7	16400.6	16618.9	16656.2	16837.2	16331.3
40°	18253.6	18184.4	18509.2	18562.5	18429.3	17497.5	16464.5	17114.1	17673.2	18067.3	17465.5
42.5°	18498.6	18647.7	18988.5	19398.5	19100.3	18104.5	16794.6	17492.2	18738.2	19361.2	18541.2
45°	18828.7	18637.0	19142.9	19893.7	19899.0	18615.7	17114.1	18003.4	19568.9	20474.1	19276.0
47.5°	18493.2	18589.1	19110.9	20064.1	20309.0	19153.5	17976.7	18727.5	20484.7	21288.8	19957.6
50°	17742.4	17934.1	18887.3	19877.7	20617.9	19723.3	18967.2	19510.3	21331.4	21943.8	20069.4
52.5°	16959.7	17066.2	18557.1	20021.5	20756.3	20458.1	20293.0	20591.2	22364.4	22683.9	20207.8
55°	14829.7	15335.6	17465.5	19957.6	21432.6	21784.0	21656.2	22092.8	23535.9	23855.4	20964.0
56°	13844.6	14110.9	16810.6	19659.4	21565.7	22268.6	22204.7	22401.7	24158.9	24494.4	21081.1
57.5°	12023.5	12044.8	14334.5	18338.8	21065.2	22412.3	22348.4	22502.9	24036.4	23807.5	20053.4
60°	7524.0	7854.2	9755.1	14105.6	17912.8	20793.6	21155.7	19915.0	20266.4	19781.9	15601.8
62.5°	3897.8	3849.9	5111.9	8248.2	11890.4	14888.3	15223.8	15165.2	14622.1	13913.9	10191.8
65°	1943.6	1954.2	2673.1	4084.2	6091.6	7795.6	8732.8	8833.9	7390.9	6799.8	4835.0
67.5°	1411.1	1464.3	1922.3	2497.4	2870.1	3210.9	3935.1	3860.5	2923.3	2779.6	2577.2
70°	1096.9	1144.8	1560.2	1906.3	1730.6	1730.6	1885.0	1948.9	2082.0	2140.6	2209.8
72.5°	798.7	836.0	1192.8	1315.2	1134.2	1219.4	1411.1	1560.2	1698.6	1719.9	1799.8
75°	548.5	580.4	782.8	724.2	681.6	841.3	1033.0	1171.5	1272.6	1325.9	1373.8
77.5°	356.8	367.4	447.3	378.1	436.6	543.1	670.9	788.1	889.3	931.9	942.5
80°	159.7	175.7	191.7	239.6	303.5	388.7	479.2	575.1	639.0	655.0	686.9
82.5°	90.5	90.5	117.1	170.4	223.6	282.2	346.1	415.3	489.9	505.9	500.5
85°	47.9	47.9	69.2	101.2	138.4	165.1	159.7	165.1	175.7	202.3	197.0
87.5°	16.0	16.0	21.3	21.3	26.6	31.9	26.6	37.3	47.9	47.9	47.9
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°	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3	10937.3
2.5°	10921.3	10969.2	10905.3	11043.8	11043.8	11017.1	10884.0	10926.6	10958.6	10958.6	10985.2
5°	11129.0	11113.0	11155.6	10990.5	10889.3	10852.1	10633.7	10527.3	10436.7	10431.4	10351.5
7.5°	11246.1	11203.5	11187.5	11065.1	10617.8	10346.2	9877.6	9606.0	9547.5	9339.8	9419.7
10°	11432.5	11512.3	11432.5	10766.9	10143.9	9520.9	9062.9	8642.2	8477.2	8344.1	8264.2
12.5°	11815.9	11778.6	11315.3	10415.4	9542.2	8802.0	8120.4	7678.4	7513.4	7396.2	7385.6
15°	12140.7	11954.3	11246.1	9861.6	8605.0	7816.9	7257.8	6943.6	6869.1	6879.7	6927.6
17.5°	12252.5	12124.7	10884.0	9286.6	7907.4	6980.9	6720.0	6672.1	6741.3	6821.1	6842.4
20°	12428.2	12225.9	10734.9	8503.8	7044.8	6459.1	6443.1	6613.5	6741.3	6858.4	6874.4
22.5°	12795.6	12284.5	10250.4	7763.6	6453.7	6304.6	6459.1	6602.8	6799.8	6895.7	6810.5
25°	12902.1	12156.7	9568.8	6874.4	6081.0	6208.8	6373.9	6570.9	6709.3	6762.6	6799.8
27.5°	12992.7	11959.6	8647.6	6283.3	5963.8	6203.5	6373.9	6538.9	6613.5	6661.4	6704.0
30°	13248.3	11901.1	7848.8	5889.3	5889.3	6097.0	6315.3	6357.9	6459.1	6517.6	6592.2
32.5°	13376.1	11496.4	7028.8	5639.0	5814.7	6150.2	6166.2	6246.1	6251.4	6299.3	6219.4
35°	13711.5	11208.8	6267.4	5458.0	5846.7	6097.0	6176.8	6128.9	5868.0	5740.2	5766.8
37.5°	13956.5	11065.1	5718.9	5436.7	5852.0	6155.5	6198.1	5836.0	5564.5	5351.5	5404.7
40°	14616.7	10708.3	5303.6	5399.4	5899.9	6219.4	6102.3	5708.3	5218.4	5000.0	4962.8
42.5°	15122.6	10452.7	5042.6	5356.8	5937.2	6310.0	6054.4	5452.7	4952.1	4749.8	4803.0
45°	15708.3	10394.1	4904.2	5367.5	6001.1	6357.9	5995.8	5255.6	4723.2	4643.3	4627.3
47.5°	15916.0	9973.5	4755.1	5276.9	5985.1	6341.9	5798.8	5106.5	4638.0	4648.6	4691.2
50°	15569.9	9542.2	4643.3	5090.6	5878.6	6198.1	5489.9	4909.5	4590.0	4723.2	4797.7
52.5°	15127.9	9100.2	4414.3	4840.3	5660.3	5974.5	5346.2	4898.9	4542.1	4499.5	4515.5
55°	15261.1	8738.1	4094.8	4499.5	5308.9	5559.2	5186.4	4797.7	4425.0	4265.2	4318.5
56°	14829.7	8365.4	3887.1	4286.5	5069.3	5292.9	5106.5	4707.2	4329.1	4222.6	4222.6
57.5°	13610.3	7114.0	3615.6	3945.7	4563.4	4829.6	4952.1	4653.9	4222.6	4036.2	4041.6
60°	10037.4	5058.6	3242.8	3477.1	3780.7	3993.6	4563.4	4504.8	3956.4	3828.6	3780.7
62.5°	6187.5	3695.5	2976.6	3067.1	3221.5	3397.3	3983.0	4078.8	3674.2	3535.7	3503.8
65°	3466.5	2827.5	2774.3	2811.5	2886.1	2976.6	3306.7	3519.7	3242.8	3029.8	3019.2
67.5°	2534.6	2529.3	2571.9	2603.9	2635.8	2635.8	2715.7	2800.9	2763.6	2593.2	2577.2
70°	2252.4	2268.4	2300.3	2305.7	2316.3	2279.0	2215.1	2188.5	2231.1	2124.6	2103.3
72.5°	1858.4	1911.6	1948.9	1954.2	1895.7	1847.7	1762.5	1672.0	1640.1	1618.8	1613.4
75°	1427.1	1464.3	1480.3	1475.0	1453.7	1384.5	1283.3	1192.8	1134.2	1070.3	1102.2
77.5°	963.8	1017.0	1043.7	1043.7	1011.7	905.2	857.3	788.1	729.5	660.3	670.9
80°	676.3	713.5	756.1	750.8	697.6	644.3	575.1	511.2	463.3	410.0	404.7
82.5°	505.9	527.2	548.5	537.8	500.5	447.3	399.4	340.8	287.5	250.3	250.3
85°	181.0	197.0	239.6	250.3	271.6	271.6	229.0	191.7	154.4	127.8	127.8
87.5°	53.2	53.2	58.6	58.6	53.2	58.6	47.9	53.2	58.6	37.3	37.3
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)