

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: P454895

Luminaire Tested: **GALN-SA6A-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27069 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

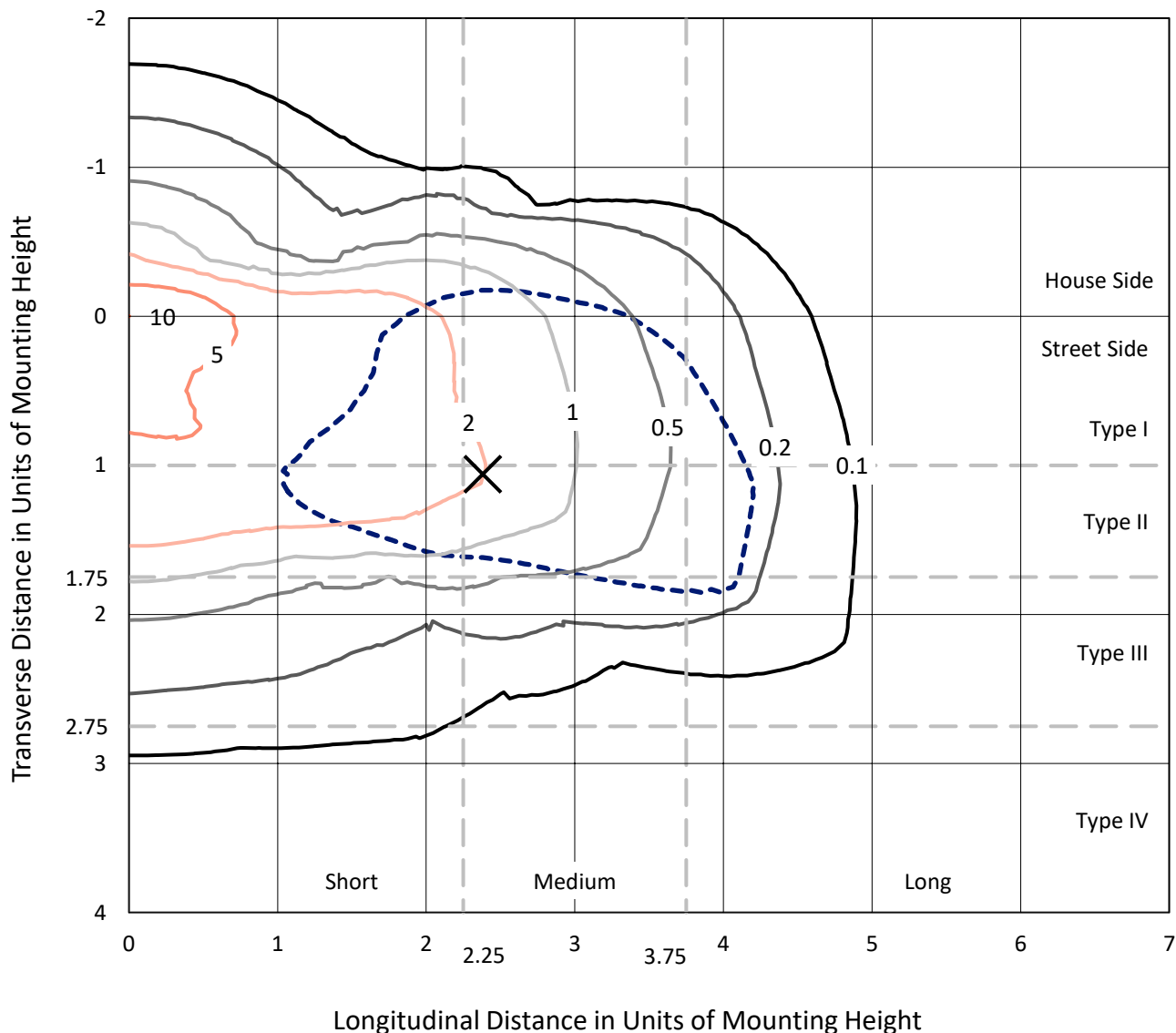
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

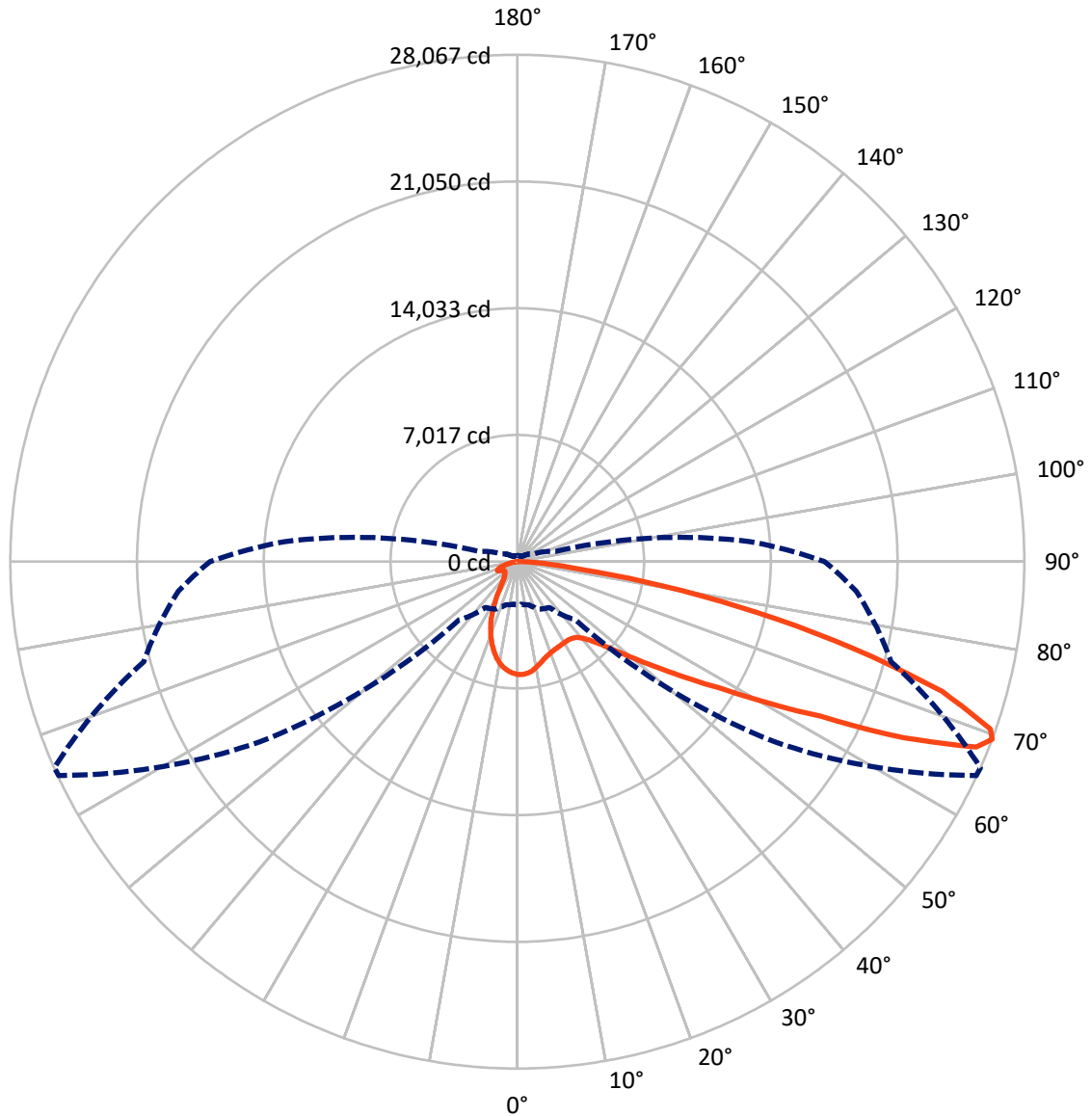
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5090.7	0.0	5090.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21978.4	0.0	21978.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	27069.0	0.0	27069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.8	2.0
10°-20°	1287.5	4.8
20°-30°	1752.8	6.5
30°-40°	2355.4	8.7
40°-50°	3517.0	13.0
50°-60°	5594.4	20.7
60°-70°	6880.8	25.4
70°-80°	4477.0	16.5
80°-90°	661.1	2.4
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°	27069.0	100.0
0°-180°	27069.0	100.0

Coefficient of Utilization



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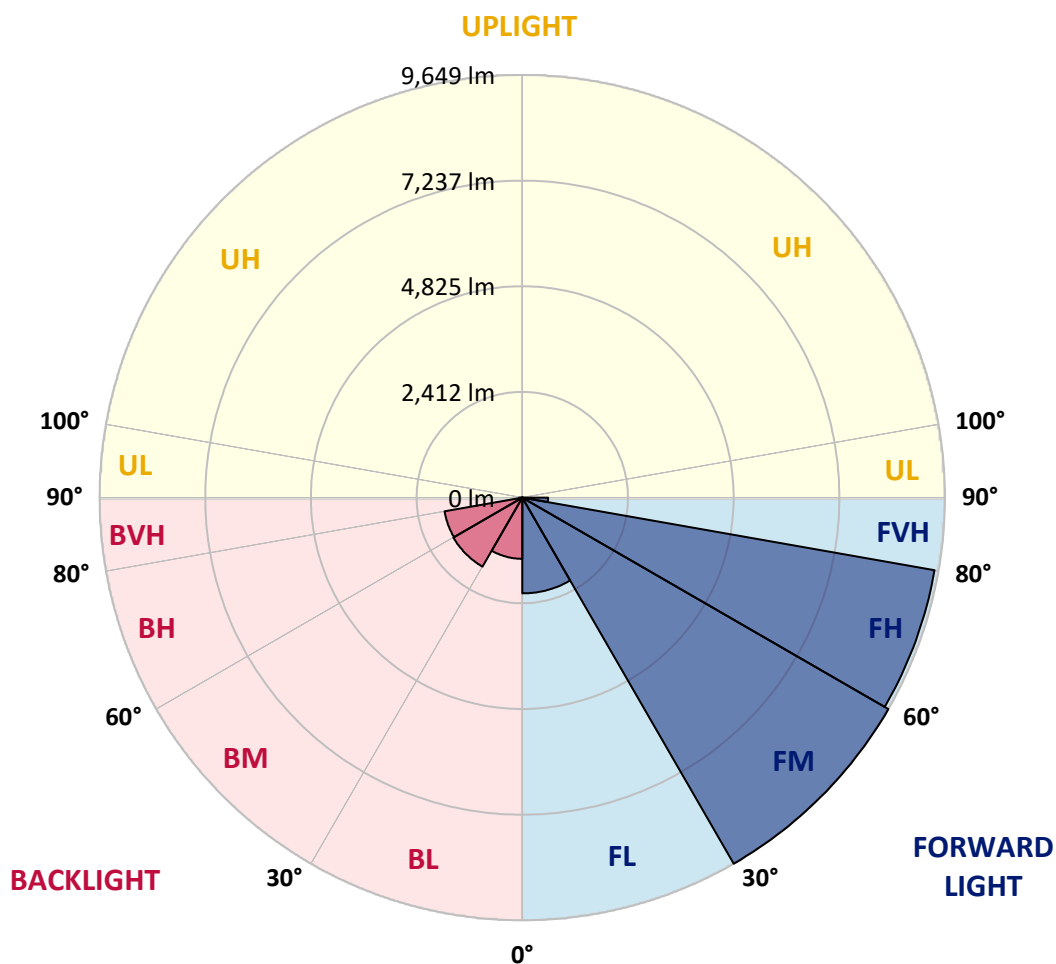
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2185.8	8.1			
FM	(30°-60°)	9649.3	35.6			
FH	(60°-80°)	9555.5	35.3			G4/12000
FVH	(80°-90°)	587.8	2.2			G4/750
BL	(0°-30°)	1397.4	5.2	B3/2500		
BM	(30°-60°)	1817.6	6.7	B2/2500		
BH	(60°-80°)	1802.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	73.3	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0
2.5°	6032.1	6056.1	6083.1	6113.1	6170.0	6201.5	6224.0	6249.5	6252.5	6266.0	6255.5
5°	5586.9	5615.4	5655.9	5712.8	5798.3	5931.7	6069.6	6182.0	6195.5	6258.5	6276.5
7.5°	5215.1	5231.6	5264.6	5356.1	5477.5	5625.9	5826.8	6054.6	6087.6	6237.5	6290.0
10°	4912.3	4928.8	4967.8	5062.2	5182.2	5368.1	5588.4	5888.2	5915.2	6173.0	6293.0
12.5°	4686.0	4701.0	4743.0	4835.9	4973.8	5147.7	5390.5	5708.3	5747.3	6087.6	6264.5
15°	4513.6	4542.1	4576.6	4653.0	4798.4	4966.3	5201.7	5543.4	5574.9	5997.6	6245.0
17.5°	4440.1	4453.6	4477.6	4548.1	4654.5	4819.4	5056.3	5414.5	5452.0	5934.7	6240.5
20°	4443.1	4456.6	4461.1	4500.1	4576.6	4719.0	4952.8	5312.6	5357.6	5879.2	6248.0
22.5°	4545.1	4546.6	4530.1	4516.6	4546.6	4665.0	4879.4	5236.1	5288.6	5855.2	6254.0
25°	4702.5	4729.5	4705.5	4642.5	4587.1	4644.0	4850.9	5194.2	5243.6	5820.8	6246.5
27.5°	4957.3	4961.8	4942.3	4856.9	4713.0	4671.0	4838.9	5162.7	5204.7	5795.3	6209.0
30°	5299.1	5285.6	5267.6	5173.2	4946.8	4774.4	4864.4	5134.2	5177.7	5757.8	6164.0
32.5°	5645.4	5687.3	5670.9	5559.9	5266.1	4975.3	4946.8	5131.2	5167.2	5729.3	6114.6
35°	6012.6	6032.1	6110.1	6053.1	5751.8	5300.6	5101.2	5177.7	5206.2	5730.8	6080.1
37.5°	6300.5	6352.9	6535.8	6585.3	6302.0	5730.8	5351.6	5309.6	5321.6	5804.3	6093.6
40°	6648.2	6738.2	6973.5	7175.9	6990.0	6290.0	5777.3	5553.9	5568.9	5981.2	6182.0
42.5°	7088.9	7151.9	7468.2	7742.5	7712.5	7029.0	6293.0	5954.2	5961.7	6333.4	6429.4
45°	7604.6	7694.6	8049.8	8462.1	8532.5	7865.4	7038.0	6559.8	6555.3	6880.6	6891.1
47.5°	8264.2	8319.7	8671.9	9121.6	9406.5	8916.3	7941.9	7429.2	7381.3	7678.1	7592.6
50°	8871.3	8958.2	9225.1	9716.8	10425.8	10147.0	9130.6	8556.5	8444.1	8721.4	8577.5
52.5°	9126.1	9217.6	9442.4	10052.5	11299.7	11739.0	10640.2	9901.1	9713.8	9926.6	9874.2
55°	8683.9	8802.3	9012.2	9754.2	11683.5	13575.3	12675.9	11455.6	11319.2	11227.8	11242.8
57.5°	7495.2	7607.6	7890.9	8709.4	11224.8	14907.9	15582.5	13453.9	13161.5	12740.3	12812.3
60°	5705.3	5775.8	5922.7	6829.6	9865.2	15254.2	18883.4	15979.7	15793.9	14246.8	14297.8
62.5°	4051.9	4131.3	4233.3	4686.0	7222.4	14278.3	21467.7	19507.0	18842.9	15807.3	15757.9
65°	3290.4	3236.4	3359.3	3570.7	4237.8	11065.9	22049.3	24402.8	23488.4	17862.5	17176.0
67.5°	2705.8	2648.8	2770.2	3146.5	3222.9	6423.4	19953.7	27580.8	27397.9	20097.6	18616.5
69°	2395.5	2365.5	2471.9	2900.6	3094.0	4561.6	17382.8	28023.0	28066.5	21415.2	18838.4
70°	2158.6	2170.6	2274.0	2776.2	3035.5	3761.1	14857.0	27412.9	27781.7	22073.3	18598.6
72.5°	1589.0	1614.5	1758.4	2299.5	2980.1	3191.4	8841.3	23944.1	24596.2	22112.3	17014.1
75°	1110.8	1098.8	1226.2	1731.4	2815.2	3163.0	5192.7	18517.6	19256.6	19112.7	14296.3
77.5°	727.0	746.5	848.5	1223.2	2368.5	3139.0	3384.8	13137.6	13617.3	12782.3	8456.1
80°	512.7	511.2	568.1	835.0	1756.9	3016.1	2771.7	8280.7	8159.3	5023.3	2507.9
82.5°	293.8	314.8	380.8	587.6	1175.2	2654.8	2549.9	3960.5	3615.7	1431.6	847.0
85°	163.4	170.9	226.4	355.3	686.6	1999.7	2226.1	1801.8	1699.9	598.1	364.3
87.5°	52.5	57.0	94.4	179.9	311.8	944.4	1260.7	832.0	767.5	215.9	146.9
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°	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0	6251.0
2.5°	6260.0	6278.0	6230.0	6183.5	6141.6	6083.1	6030.6	5987.2	5957.2	5952.7	5937.7
5°	6281.0	6282.5	6191.0	6068.1	5948.2	5816.3	5679.9	5582.4	5491.0	5440.0	5414.5
7.5°	6296.0	6282.5	6117.6	5918.2	5687.3	5447.5	5207.7	5015.8	4867.4	4808.9	4831.4
10°	6290.0	6248.0	6006.6	5687.3	5351.6	4993.3	4648.5	4378.7	4131.3	4003.9	4006.9
12.5°	6257.0	6188.0	5841.7	5428.0	4934.8	4455.1	3927.5	3563.2	3276.9	3107.5	3055.0
15°	6228.5	6108.6	5648.4	5075.7	4462.6	3777.6	3134.5	2684.8	2444.9	2311.5	2310.0
17.5°	6198.5	6032.1	5437.0	4702.5	3920.0	3038.5	2364.0	2020.7	1908.3	1921.8	1899.3
20°	6167.0	5942.2	5216.6	4287.2	3258.9	2266.5	1770.4	1631.0	1662.4	1723.9	1732.9
22.5°	6131.1	5846.2	4979.8	3830.0	2563.4	1705.9	1436.1	1415.1	1496.0	1592.0	1605.5
25°	6075.6	5726.3	4681.5	3351.8	1977.2	1374.6	1257.7	1272.7	1352.1	1433.1	1442.1
27.5°	5997.6	5577.9	4380.2	2755.2	1485.5	1179.7	1149.8	1169.2	1208.2	1257.7	1269.7
30°	5892.7	5410.0	4033.9	2239.6	1190.2	1082.3	1070.3	1080.8	1103.3	1124.3	1130.3
32.5°	5787.8	5248.1	3684.6	1714.9	1061.3	1017.8	1005.9	1005.9	1005.9	1008.9	1010.4
35°	5690.3	5095.2	3309.9	1335.6	993.9	966.9	950.4	932.4	929.4	918.9	918.9
37.5°	5636.4	4955.8	2911.1	1118.3	944.4	924.9	902.4	872.4	856.0	857.4	854.5
40°	5646.9	4864.4	2548.4	995.4	903.9	882.9	848.5	814.0	803.5	803.5	800.5
42.5°	5765.3	4834.4	2200.6	930.9	864.9	841.0	797.5	766.0	760.0	758.5	761.5
45°	6038.1	4907.8	1888.8	888.9	832.0	796.0	752.5	724.0	718.0	718.0	716.5
47.5°	6570.3	5146.2	1665.4	861.9	808.0	761.5	716.5	688.1	677.6	674.6	674.6
50°	7397.7	5663.4	1499.0	838.0	778.0	730.0	683.6	650.6	634.1	632.6	631.1
52.5°	8547.5	6469.8	1434.6	820.0	745.0	697.1	646.1	614.6	593.6	589.1	586.1
55°	9892.1	7595.6	1523.0	806.5	710.5	659.6	607.1	574.1	554.6	545.6	544.2
57.5°	11449.6	8947.8	1858.8	788.5	679.1	619.1	568.1	535.2	514.2	503.7	500.7
60°	12848.2	10337.4	2444.9	778.0	652.1	575.6	523.2	493.2	473.7	463.2	461.7
62.5°	14384.8	11662.5	3145.0	806.5	640.1	533.7	481.2	454.2	437.7	427.2	427.2
65°	16026.2	12989.2	3608.2	902.4	658.1	500.7	436.2	413.7	398.7	391.2	389.7
67.5°	17132.5	13447.9	2972.6	1001.4	703.0	464.7	392.7	374.8	365.8	358.3	358.3
69°	17012.6	12867.7	2193.1	1026.8	716.5	446.7	368.8	355.3	343.3	340.3	337.3
70°	16633.3	12206.7	1837.8	1010.4	706.0	430.2	353.8	337.3	326.8	323.8	322.3
72.5°	14815.0	10586.2	1368.6	878.4	601.1	373.3	313.3	298.3	289.3	284.8	284.8
75°	12308.6	8652.4	1068.8	698.6	470.7	314.8	268.3	256.3	248.8	245.8	244.3
77.5°	6898.6	4831.4	767.5	547.1	356.8	254.8	224.9	214.4	206.9	203.9	203.9
80°	1921.8	1380.6	451.2	361.3	242.8	193.4	178.4	170.9	160.4	152.9	157.4
82.5°	724.0	598.1	257.8	217.4	154.4	128.9	124.4	118.4	113.9	103.4	103.4
85°	352.3	290.8	164.9	115.4	85.4	67.5	64.5	61.5	58.5	51.0	52.5
87.5°	121.4	128.9	72.0	42.0	25.5	16.5	13.5	7.5	7.5	7.5	7.5
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)