

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: P455069

Luminaire Tested: **GALN-SA6B-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455069
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-SA6B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA 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: 28168 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

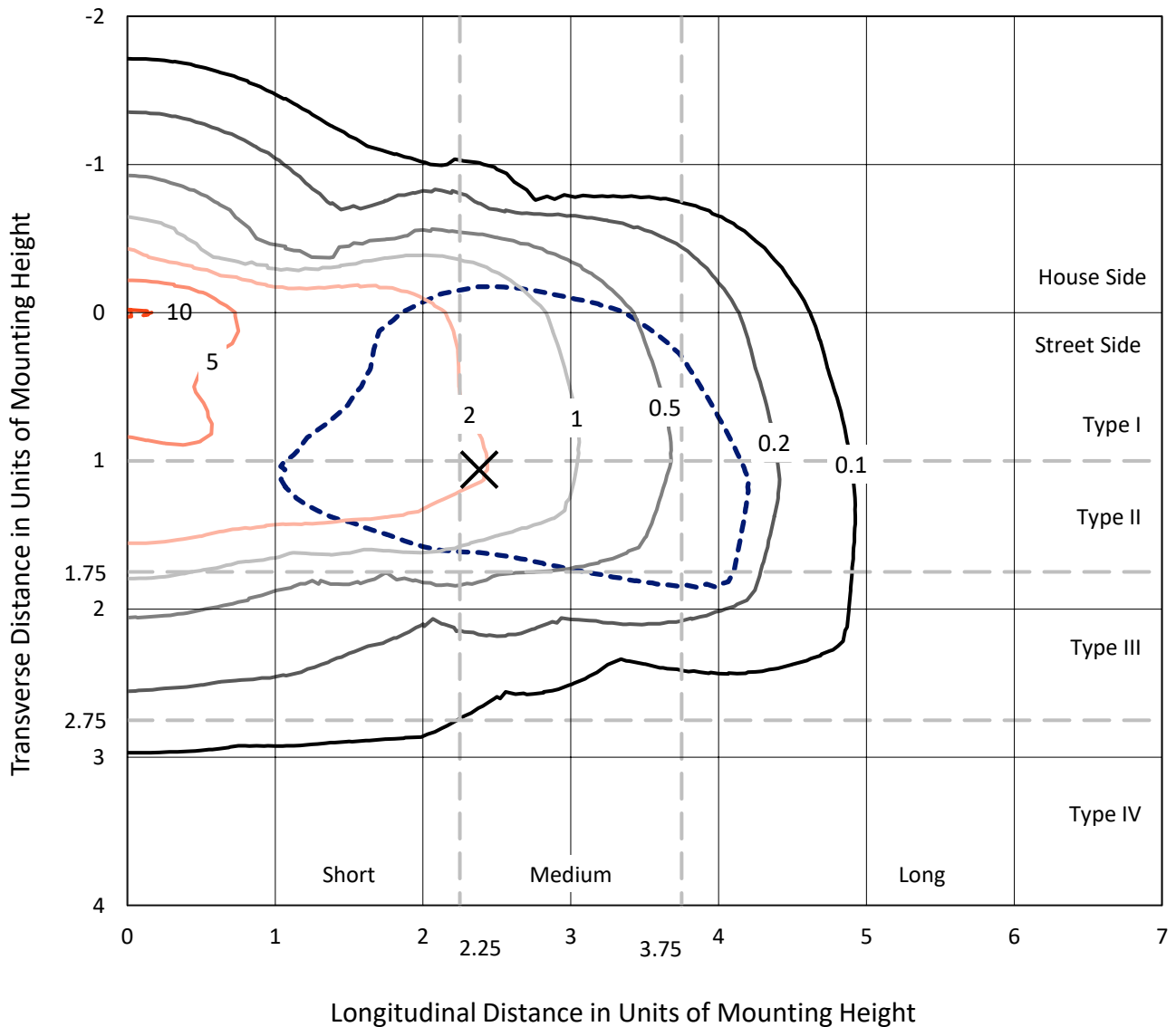
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

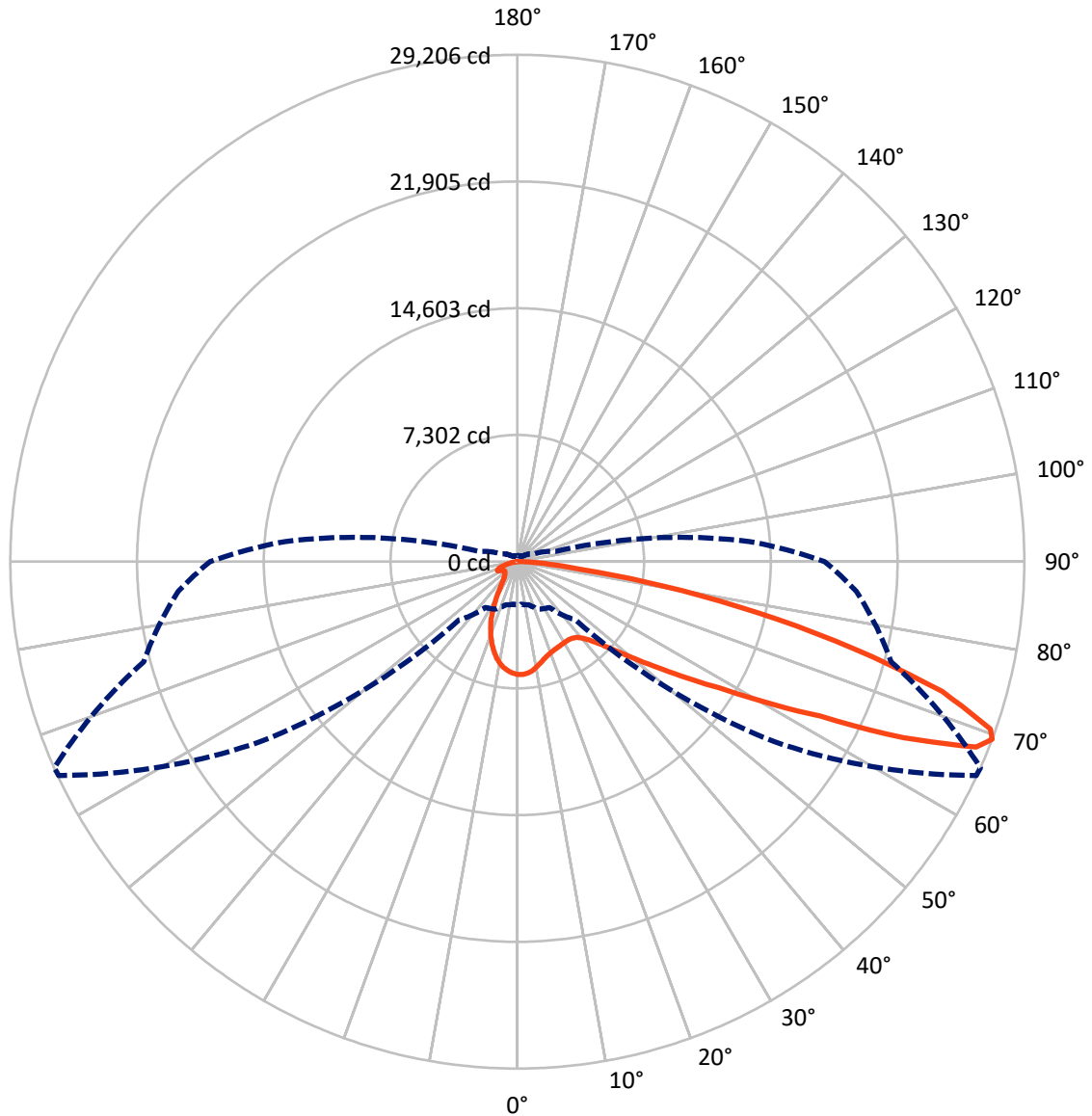
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	5297.3	0.0	5297.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22870.7	0.0	22870.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	28168.0	0.0	28168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.9	2.0
10°-20°	1339.8	4.8
20°-30°	1824.0	6.5
30°-40°	2451.1	8.7
40°-50°	3659.8	13.0
50°-60°	5821.5	20.7
60°-70°	7160.2	25.4
70°-80°	4658.7	16.5
80°-90°	688.0	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°	28168.0	100.0
0°-180°	28168.0	100.0

Coefficient of Utilization



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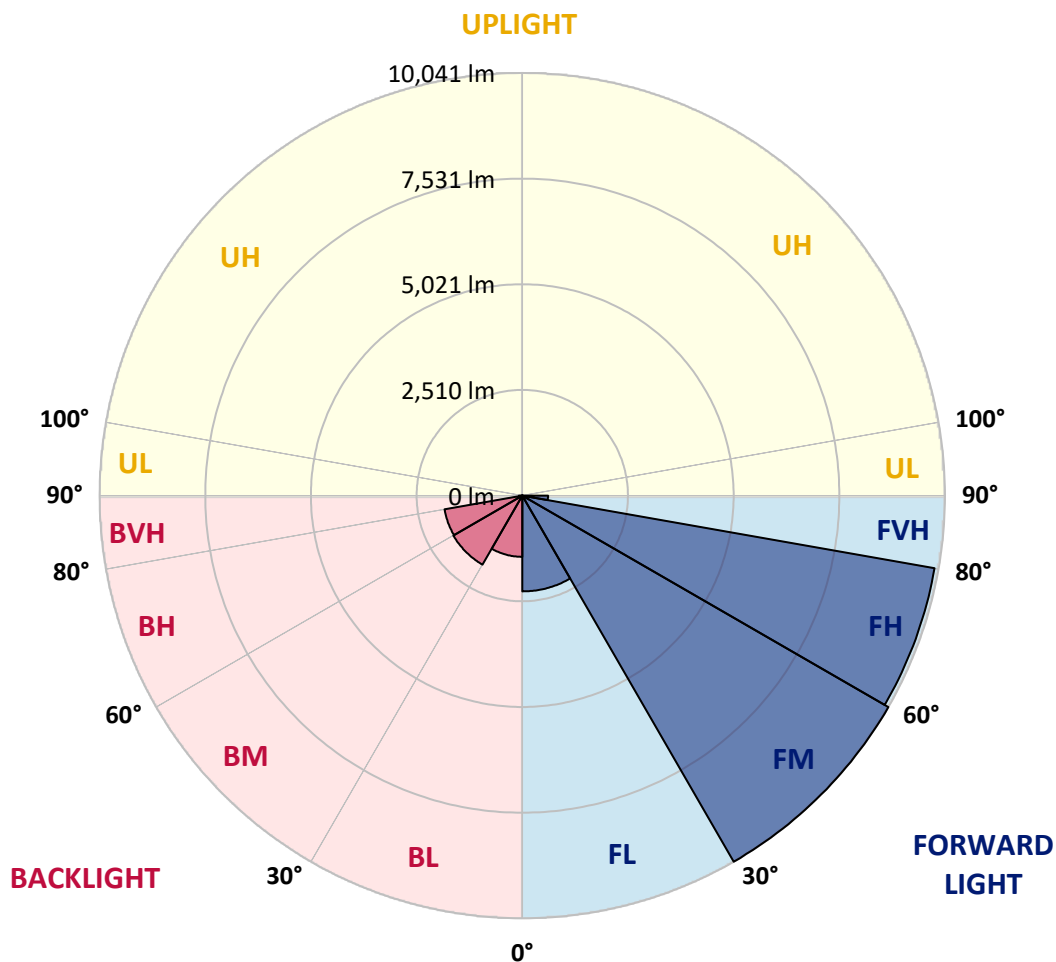
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2274.5	8.1			
FM	(30°-60°)	10041.0	35.6			
FH	(60°-80°)	9943.4	35.3			G4/12000
FVH	(80°-90°)	611.6	2.2			G4/750
BL	(0°-30°)	1454.1	5.2	B3/2500		
BM	(30°-60°)	1891.4	6.7	B2/2500		
BH	(60°-80°)	1875.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	76.3	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°	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8
2.5°	6277.0	6302.0	6330.1	6361.3	6420.5	6453.3	6476.7	6503.2	6506.3	6520.4	6509.5
5°	5813.7	5843.4	5885.5	5944.8	6033.7	6172.5	6316.0	6433.0	6447.1	6512.6	6531.3
7.5°	5426.9	5444.0	5478.4	5573.5	5699.9	5854.3	6063.3	6300.4	6334.7	6490.7	6545.3
10°	5111.8	5128.9	5169.5	5267.8	5392.6	5586.0	5815.3	6127.3	6155.4	6423.7	6548.5
12.5°	4876.2	4891.8	4935.5	5032.2	5175.7	5356.7	5609.4	5940.1	5980.6	6334.7	6518.8
15°	4696.9	4726.5	4762.4	4841.9	4993.2	5167.9	5412.8	5768.5	5801.3	6241.2	6498.5
17.5°	4620.4	4634.5	4659.4	4732.7	4843.5	5015.1	5261.5	5634.4	5673.3	6175.6	6493.9
20°	4623.5	4637.6	4642.3	4682.8	4762.4	4910.6	5153.9	5528.3	5575.1	6117.9	6501.7
22.5°	4729.6	4731.2	4714.0	4700.0	4731.2	4854.4	5077.5	5448.7	5503.3	6093.0	6507.9
25°	4893.4	4921.5	4896.5	4831.0	4773.3	4832.6	5047.8	5405.0	5456.5	6057.1	6500.1
27.5°	5158.6	5163.3	5143.0	5054.1	4904.3	4860.6	5035.4	5372.3	5416.0	6030.6	6461.1
30°	5514.2	5500.2	5481.5	5383.2	5147.7	4968.3	5061.9	5342.6	5387.9	5991.6	6414.3
32.5°	5874.6	5918.3	5901.1	5785.7	5479.9	5177.3	5147.7	5339.5	5377.0	5961.9	6362.8
35°	6256.8	6277.0	6358.1	6298.9	5985.3	5515.8	5308.3	5387.9	5417.5	5963.5	6326.9
37.5°	6556.3	6610.8	6801.2	6852.6	6557.8	5963.5	5568.8	5525.2	5537.6	6039.9	6341.0
40°	6918.1	7011.7	7256.6	7467.2	7273.8	6545.3	6011.8	5779.4	5795.0	6224.0	6433.0
42.5°	7376.8	7442.3	7771.4	8056.9	8025.7	7314.4	6548.5	6195.9	6203.7	6590.6	6690.4
45°	7913.4	8007.0	8376.7	8805.6	8878.9	8184.8	7323.7	6826.1	6821.4	7159.9	7170.9
47.5°	8599.7	8657.4	9024.0	9492.0	9788.4	9278.3	8264.3	7730.9	7680.9	7989.8	7900.9
50°	9231.5	9321.9	9599.6	10111.3	10849.1	10558.9	9501.3	8903.9	8786.9	9075.5	8925.7
52.5°	9496.7	9591.8	9825.8	10460.7	11758.5	12215.6	11072.2	10303.1	10108.1	10329.6	10275.0
55°	9036.5	9159.7	9378.1	10150.3	12157.8	14126.4	13190.5	11920.7	11778.8	11683.6	11699.2
57.5°	7799.5	7916.5	8211.3	9063.0	11680.5	15513.2	16215.1	14000.1	13695.9	13257.6	13332.4
60°	5937.0	6010.3	6163.2	7106.9	10265.7	15873.5	19650.0	16628.5	16435.1	14825.3	14878.3
62.5°	4216.4	4299.1	4405.2	4876.2	7515.6	14858.0	22339.3	20299.0	19607.9	16449.1	16397.6
65°	3424.0	3367.8	3495.7	3715.7	4409.8	11515.2	22944.5	25393.6	24442.0	18587.7	17873.3
67.5°	2815.6	2756.3	2882.7	3274.2	3353.8	6684.2	20763.8	28700.6	28510.3	20913.5	19372.4
69°	2492.7	2461.5	2572.3	3018.4	3219.6	4746.8	18088.6	29160.7	29206.0	22284.7	19603.2
70°	2246.3	2258.7	2366.4	2888.9	3158.8	3913.8	15460.1	28525.9	28909.6	22969.5	19353.7
72.5°	1653.5	1680.0	1829.8	2392.9	3101.1	3321.0	9200.3	24916.2	25594.8	23010.1	17704.8
75°	1155.9	1143.4	1276.0	1801.7	2929.5	3291.4	5403.5	19269.4	20038.4	19888.7	14876.7
77.5°	756.6	776.8	882.9	1272.9	2464.6	3266.4	3522.2	13670.9	14170.1	13301.2	8799.4
80°	533.5	531.9	591.2	868.9	1828.2	3138.5	2884.3	8616.9	8490.5	5227.2	2609.7
82.5°	305.7	327.6	396.2	611.5	1223.0	2762.6	2653.4	4121.3	3762.5	1489.7	881.3
85°	170.0	177.8	235.5	369.7	714.4	2080.9	2316.4	1875.0	1768.9	622.4	379.1
87.5°	54.6	59.3	98.3	187.2	324.5	982.7	1311.9	865.7	798.7	224.6	152.9
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°	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8
2.5°	6514.1	6532.9	6482.9	6434.6	6390.9	6330.1	6275.5	6230.2	6199.0	6194.4	6178.8
5°	6536.0	6537.5	6442.4	6314.5	6189.7	6052.4	5910.5	5809.1	5713.9	5660.9	5634.4
7.5°	6551.6	6537.5	6365.9	6158.5	5918.3	5668.7	5419.1	5219.4	5065.0	5004.2	5027.6
10°	6545.3	6501.7	6250.5	5918.3	5568.8	5196.0	4837.2	4556.5	4299.1	4166.5	4169.6
12.5°	6511.0	6439.3	6078.9	5648.4	5135.2	4636.0	4086.9	3707.9	3409.9	3233.7	3179.1
15°	6481.4	6356.6	5877.7	5281.8	4643.8	3930.9	3261.7	2793.8	2544.2	2405.4	2403.8
17.5°	6450.2	6277.0	5657.7	4893.4	4079.1	3161.9	2460.0	2102.7	1985.7	1999.8	1976.4
20°	6417.4	6183.4	5428.4	4461.3	3391.2	2358.6	1842.2	1697.2	1729.9	1793.9	1803.2
22.5°	6380.0	6083.6	5182.0	3985.5	2667.4	1775.2	1494.4	1472.5	1556.8	1656.6	1670.7
25°	6322.3	5958.8	4871.6	3487.9	2057.5	1430.4	1308.8	1324.4	1407.0	1491.3	1500.6
27.5°	6241.2	5804.4	4558.0	2867.1	1545.9	1227.6	1196.4	1216.7	1257.3	1308.8	1321.2
30°	6132.0	5629.7	4197.7	2330.5	1238.6	1126.2	1113.8	1124.7	1148.1	1169.9	1176.2
32.5°	6022.8	5461.2	3834.2	1784.5	1104.4	1059.2	1046.7	1046.7	1046.7	1049.8	1051.4
35°	5921.4	5302.1	3444.3	1389.9	1034.2	1006.1	989.0	970.3	967.1	956.2	956.2
37.5°	5865.2	5157.0	3029.3	1163.7	982.7	962.5	939.1	907.9	890.7	892.3	889.1
40°	5876.1	5061.9	2651.8	1035.8	940.6	918.8	882.9	847.0	836.1	836.1	833.0
42.5°	5999.4	5030.7	2289.9	968.7	900.1	875.1	829.9	797.1	790.9	789.3	792.4
45°	6283.3	5107.1	1965.5	925.0	865.7	828.3	783.1	753.4	747.2	747.2	745.6
47.5°	6837.0	5355.1	1733.0	896.9	840.8	792.4	745.6	716.0	705.1	702.0	702.0
50°	7698.1	5893.3	1559.9	872.0	809.6	759.7	711.3	677.0	659.8	658.3	656.7
52.5°	8894.5	6732.5	1492.8	853.3	775.3	725.4	672.3	639.6	617.7	613.0	609.9
55°	10293.8	7904.0	1584.9	839.2	739.4	686.4	631.8	597.4	577.2	567.8	566.2
57.5°	11914.5	9311.0	1934.3	820.5	706.6	644.2	591.2	556.9	535.0	524.1	521.0
60°	13369.9	10757.1	2544.2	809.6	678.6	599.0	544.4	513.2	492.9	482.0	480.4
62.5°	14968.8	12136.0	3272.7	839.2	666.1	555.3	500.7	472.6	455.5	444.6	444.6
65°	16676.9	13516.5	3754.7	939.1	684.8	521.0	453.9	430.5	414.9	407.1	405.6
67.5°	17828.1	13993.8	3093.3	1042.0	731.6	483.6	408.7	390.0	380.6	372.8	372.8
69°	17703.3	13390.2	2282.1	1068.5	745.6	464.8	383.7	369.7	357.2	354.1	351.0
70°	17308.6	12702.2	1912.4	1051.4	734.7	447.7	368.1	351.0	340.1	336.9	335.4
72.5°	15416.5	11016.0	1424.2	914.1	625.5	388.4	326.0	310.4	301.1	296.4	296.4
75°	12808.3	9003.7	1112.2	726.9	489.8	327.6	279.2	266.7	258.9	255.8	254.3
77.5°	7178.6	5027.6	798.7	569.4	371.3	265.2	234.0	223.1	215.3	212.1	212.1
80°	1999.8	1436.7	469.5	375.9	252.7	201.2	185.6	177.8	166.9	159.1	163.8
82.5°	753.4	622.4	268.3	226.2	160.7	134.2	129.5	123.2	118.6	107.6	107.6
85°	366.6	302.6	171.6	120.1	88.9	70.2	67.1	64.0	60.8	53.0	54.6
87.5°	126.4	134.2	74.9	43.7	26.5	17.2	14.0	7.8	7.8	7.8	7.8
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)