

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: P652391

Luminaire Tested: **GALN-SA5B-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23753.2 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

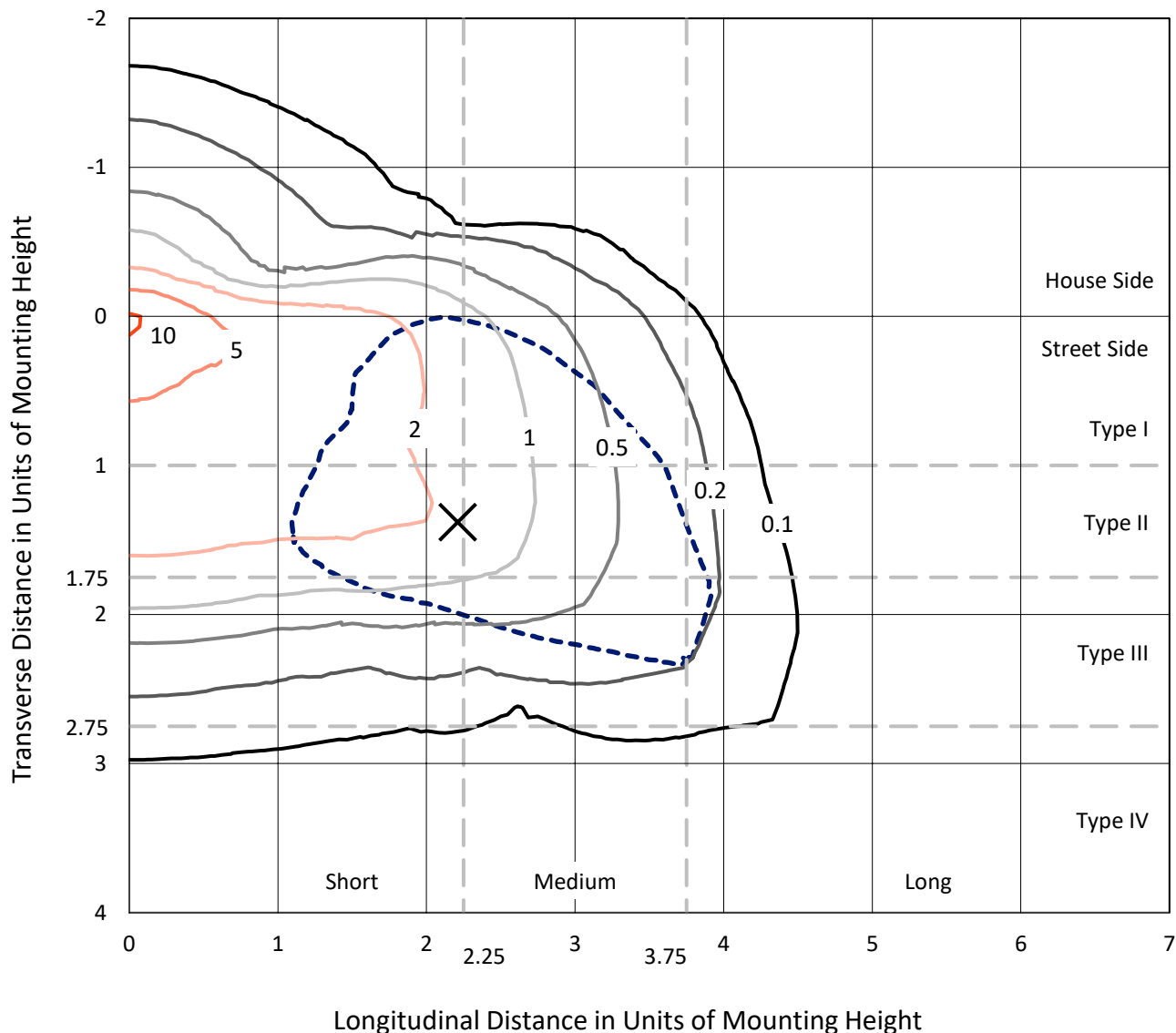
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

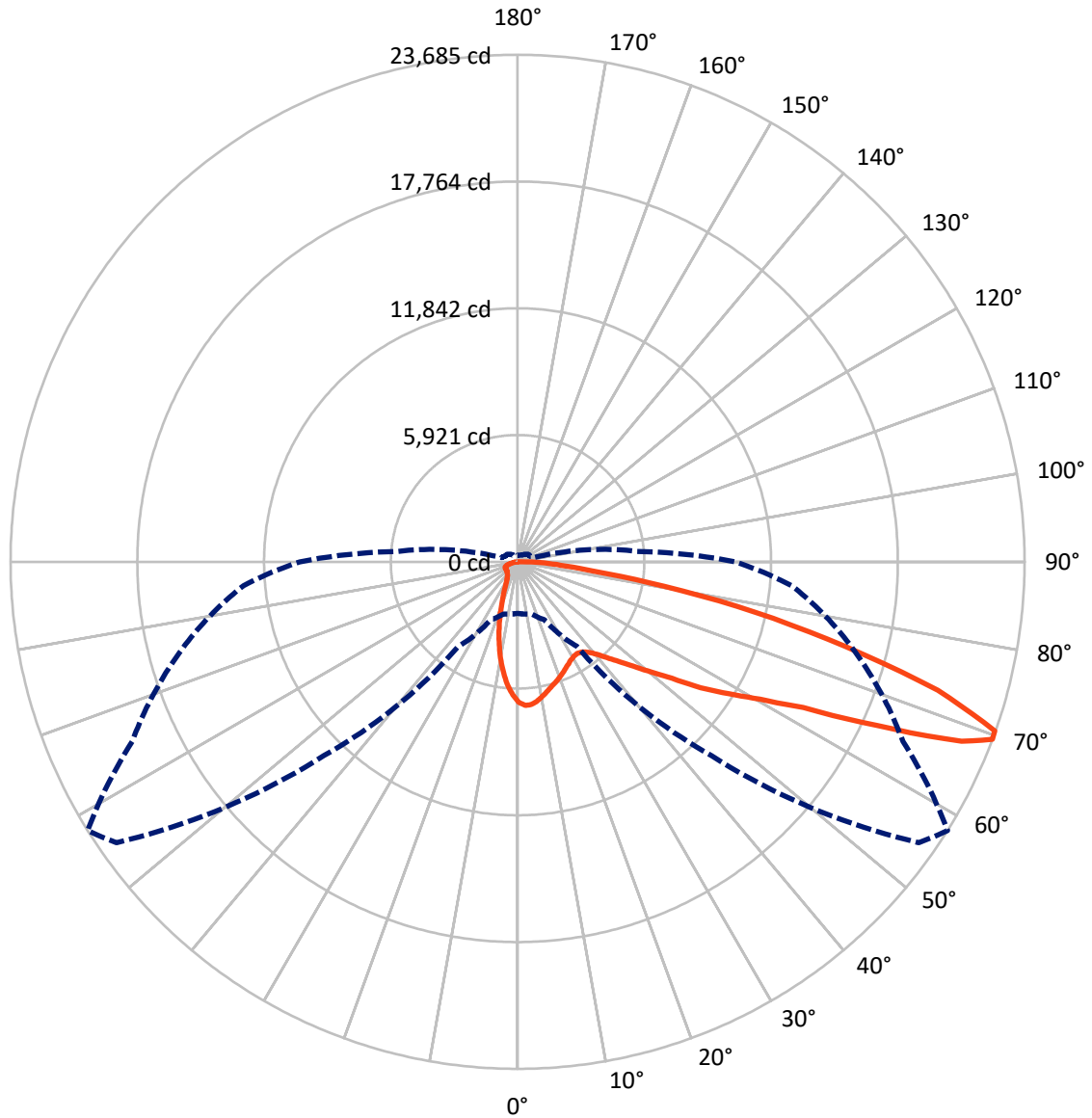
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3481.0	0.0	3481.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	20272.2	0.0	20272.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	23753.2	0.0	23753.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.4	2.3
10°-20°	1224.1	5.2
20°-30°	1581.5	6.7
30°-40°	2054.0	8.6
40°-50°	2986.3	12.6
50°-60°	4765.1	20.1
60°-70°	6365.6	26.8
70°-80°	3669.5	15.4
80°-90°	549.6	2.3
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°	23753.2	100.0
0°-180°	23753.2	100.0

**Coefficient of Utilization**



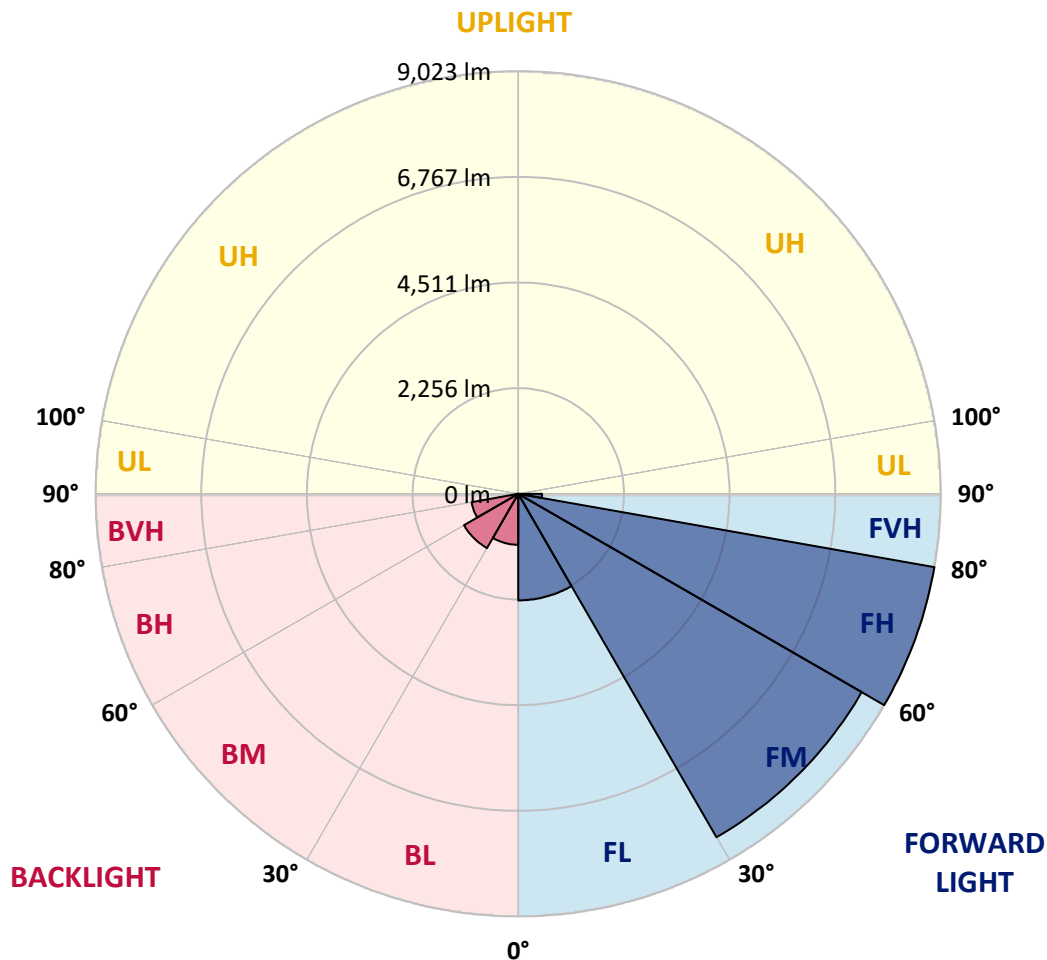
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2275.0	9.6			
FM (30°-60°)	8466.8	35.6			
FH (60°-80°)	9022.9	38.0			G4/12000
FVH (80°-90°)	507.5	2.1			G4/750
BL (0°-30°)	1088.0	4.6	B3/2500		
BM (30°-60°)	1338.7	5.6	B2/2500		
BH (60°-80°)	1012.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	42.1	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0
2.5°	6807.7	6826.3	6821.0	6814.4	6803.8	6774.6	6726.9	6719.0	6688.6	6623.6	6542.8
5°	6703.1	6719.0	6720.3	6729.6	6742.8	6737.5	6703.1	6699.2	6654.1	6566.6	6431.5
7.5°	6344.1	6365.3	6411.6	6463.3	6509.7	6553.4	6564.0	6570.6	6542.8	6442.1	6261.9
10°	5940.1	5961.3	5982.5	6059.2	6173.2	6281.8	6371.9	6383.9	6390.4	6297.7	6077.8
12.5°	5492.3	5536.1	5581.0	5695.0	5847.3	6018.2	6177.1	6202.4	6247.4	6177.1	5918.9
15°	5112.1	5157.2	5222.0	5324.0	5508.2	5754.6	5978.5	6019.5	6108.3	6072.5	5770.5
17.5°	4848.4	4864.3	4909.4	5026.0	5224.7	5484.3	5783.7	5865.9	6007.6	5998.3	5643.3
20°	4640.5	4660.4	4688.2	4759.7	4966.4	5240.6	5602.2	5708.2	5900.3	5932.1	5517.5
22.5°	4553.1	4567.6	4563.7	4602.1	4742.5	5018.1	5418.1	5544.0	5804.9	5887.1	5400.9
25°	4558.4	4571.6	4551.7	4542.5	4625.9	4822.0	5226.1	5386.4	5728.1	5856.6	5294.9
27.5°	4647.1	4656.4	4619.3	4582.2	4588.8	4700.1	5067.0	5244.6	5663.2	5869.8	5206.1
30°	4766.4	4783.6	4759.7	4714.6	4665.7	4671.0	4965.1	5139.9	5632.7	5916.2	5163.7
32.5°	4920.0	4935.9	4925.3	4889.6	4826.0	4755.8	4939.9	5101.5	5635.4	6010.3	5154.5
35°	5081.7	5113.4	5130.6	5128.0	5076.4	4954.5	5039.3	5173.1	5699.0	6167.9	5208.8
37.5°	5264.4	5290.9	5365.2	5412.8	5365.2	5223.4	5263.1	5355.8	5839.4	6395.7	5328.1
40°	5441.9	5481.7	5590.3	5738.7	5720.1	5595.6	5604.9	5665.8	6087.1	6734.9	5561.2
42.5°	5627.4	5675.1	5864.5	6084.5	6128.2	6031.5	6056.6	6111.0	6439.5	7205.2	5961.3
45°	5865.9	5922.8	6156.0	6430.2	6602.4	6542.8	6614.3	6640.8	6911.1	7817.2	6488.5
47.5°	6173.2	6239.5	6526.9	6868.7	7112.4	7166.7	7291.3	7275.4	7495.2	8541.8	7172.0
50°	6691.2	6728.3	6999.8	7348.2	7683.4	7928.4	8063.6	8088.7	8219.9	9246.5	7936.4
52.5°	7307.2	7340.2	7536.4	7841.1	8261.0	8780.3	9114.1	9031.9	9063.7	10105.0	8830.6
55°	8000.0	8055.6	8180.2	8382.8	8927.3	9691.7	10362.0	10381.8	10029.4	10926.3	9687.6
57.5°	8536.5	8630.6	8843.9	9132.7	9822.8	10705.1	11605.9	11619.2	11168.7	11803.3	10633.5
60°	8266.3	8377.5	8865.1	9568.5	10997.8	12473.5	13092.2	13016.7	12277.5	12802.1	11787.4
62.5°	7100.5	7120.4	7829.1	8928.6	11359.5	14839.5	15304.5	14985.3	13757.2	14068.5	12959.7
65°	4595.5	4725.2	5286.9	6827.6	10171.2	16152.3	19180.6	18442.8	15831.7	15505.9	13941.3
67.5°	2901.1	2868.1	3101.2	3898.6	6995.9	14995.9	22488.5	22371.9	18544.8	16413.3	13706.9
69°	2405.7	2442.8	2522.2	2988.6	4814.1	12803.5	22879.2	23684.7	19860.2	16341.7	12855.1
70°	2181.8	2199.0	2282.5	2649.4	3714.5	10723.6	22238.1	23648.9	20376.8	16042.4	12237.8
72.5°	1731.5	1730.1	1873.2	2204.3	2776.6	6121.6	18260.0	20531.8	19799.3	14648.8	10111.6
75°	1315.4	1336.7	1494.3	1865.2	2558.1	3344.9	12742.5	15811.9	15813.2	11570.1	6309.7
77.5°	948.5	961.8	1145.9	1565.9	2409.6	2711.7	8487.5	11341.0	10661.4	5301.5	1983.1
80°	621.3	629.2	769.7	1240.0	2172.6	2558.1	5032.6	6941.5	5028.7	1406.8	655.7
82.5°	340.4	380.2	470.3	802.8	1743.3	2363.3	3058.8	3513.2	1886.4	626.6	341.8
85°	170.9	181.5	264.9	468.9	1139.2	1955.3	2130.2	2014.9	973.7	311.3	177.5
87.5°	50.4	63.6	109.9	181.5	462.3	1018.7	1185.6	1063.8	374.9	112.6	37.1
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°	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0	6564.0
2.5°	6509.7	6485.9	6379.8	6284.5	6197.1	6104.3	6026.2	5957.3	5963.9	5965.2	5895.0
5°	6361.3	6307.0	6105.7	5917.5	5758.6	5557.2	5385.0	5273.7	5218.1	5143.9	5170.4
7.5°	6160.0	6055.3	5775.8	5463.1	5170.4	4909.4	4625.9	4431.2	4306.7	4186.2	4202.1
10°	5952.0	5783.7	5377.0	4963.8	4584.9	4167.6	3805.9	3496.0	3265.4	3179.3	3122.4
12.5°	5738.7	5517.5	5000.8	4451.1	3927.8	3428.4	2915.7	2583.2	2328.9	2193.7	2211.0
15°	5544.0	5275.0	4608.7	3938.4	3258.8	2664.0	2152.7	1836.1	1658.5	1621.4	1642.6
17.5°	5363.8	5011.4	4241.8	3440.3	2646.8	1997.7	1617.5	1438.6	1367.1	1347.3	1345.9
20°	5178.4	4787.6	3829.7	2907.8	2062.6	1548.6	1327.4	1243.9	1230.6	1238.6	1240.0
22.5°	4990.2	4510.7	3405.9	2379.2	1642.6	1266.5	1160.5	1138.0	1148.6	1167.1	1169.7
25°	4816.7	4266.9	2997.8	1915.5	1311.5	1112.7	1061.1	1061.1	1085.0	1112.7	1114.1
27.5°	4673.6	4031.2	2591.1	1520.8	1098.2	1001.5	984.3	993.6	1026.7	1047.9	1049.1
30°	4555.7	3811.2	2207.0	1218.8	965.7	912.7	908.8	924.7	948.5	968.4	969.7
32.5°	4467.0	3617.8	1848.0	1024.0	874.3	845.2	843.9	855.8	869.0	874.3	879.6
35°	4432.5	3457.5	1519.4	900.8	813.4	794.8	794.8	793.5	798.8	801.5	804.1
37.5°	4460.3	3334.3	1265.1	821.3	768.3	755.0	747.1	739.2	736.5	736.5	737.9
40°	4578.2	3269.4	1075.6	769.7	736.5	716.7	702.1	692.8	683.6	686.2	688.9
42.5°	4828.6	3281.3	947.1	735.2	708.7	680.9	659.7	649.1	642.5	650.4	649.1
45°	5227.3	3400.6	865.1	711.4	680.9	645.1	625.3	614.7	614.7	626.6	630.6
47.5°	5785.1	3628.4	821.3	692.8	659.7	617.3	597.4	589.5	592.1	612.0	613.3
50°	6465.9	4024.5	813.4	683.6	649.1	597.4	574.9	567.0	573.6	594.8	597.4
52.5°	7217.0	4534.5	851.8	684.9	639.8	585.5	556.4	544.5	551.1	568.3	573.6
55°	8107.3	5173.1	951.2	690.2	626.6	578.9	543.1	516.6	524.6	536.5	537.8
57.5°	9016.0	5978.5	1126.0	691.5	616.0	567.0	520.6	486.2	486.2	494.1	498.1
60°	10126.1	6855.4	1356.5	692.8	617.3	549.8	490.1	451.7	446.4	450.4	451.7
62.5°	11228.4	7589.4	1395.0	688.9	630.6	532.5	457.0	417.3	408.1	406.7	404.0
65°	11714.5	7452.9	1143.3	670.3	645.1	521.9	430.5	384.2	368.3	363.0	363.0
67.5°	10922.3	6304.4	859.8	645.1	635.9	511.3	405.4	356.3	337.8	327.2	327.2
69°	10177.9	5607.5	772.3	627.9	612.0	494.1	389.5	341.8	319.2	307.3	303.3
70°	9602.9	5128.0	735.2	613.3	589.5	474.2	377.5	331.2	306.0	292.8	290.1
72.5°	7663.5	4023.2	643.8	557.7	502.1	398.7	335.1	298.1	274.3	259.6	255.7
75°	4416.6	2180.5	533.9	484.8	404.0	310.0	283.5	259.6	241.1	227.8	223.9
77.5°	1359.1	842.5	386.9	382.8	296.7	239.8	226.6	217.2	204.0	189.4	186.8
80°	572.3	429.2	262.3	258.4	197.4	166.9	162.9	161.6	156.3	144.4	140.4
82.5°	313.9	242.5	182.8	158.9	119.3	96.7	100.7	102.0	98.1	86.1	78.1
85°	153.7	132.5	88.7	71.6	54.3	34.5	33.1	39.8	37.1	26.5	29.2
87.5°	30.4	37.1	23.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
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)