

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: P454141

Luminaire Tested: **GALN-SA5B-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454141  
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-SA5B-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 23788 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

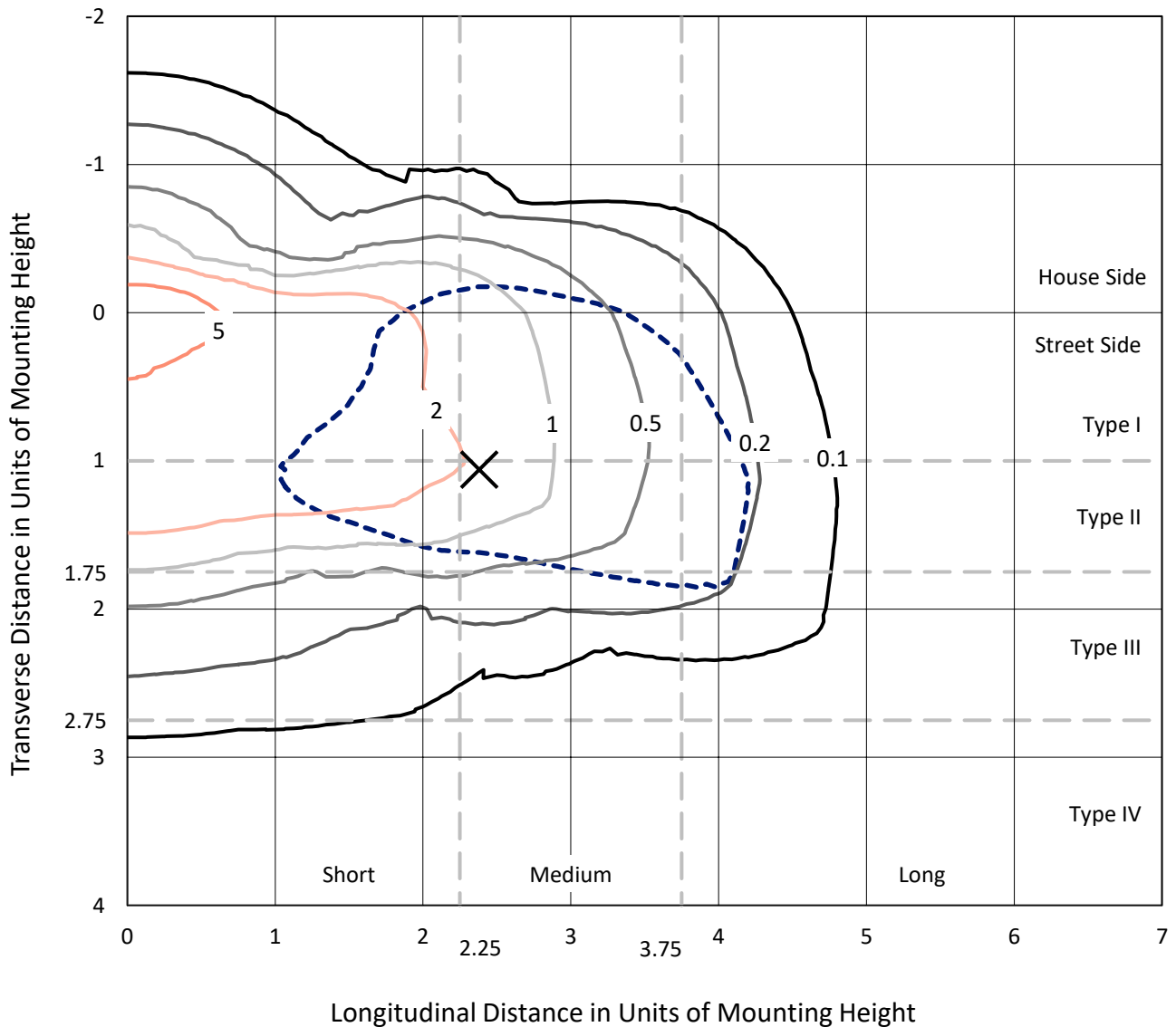
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

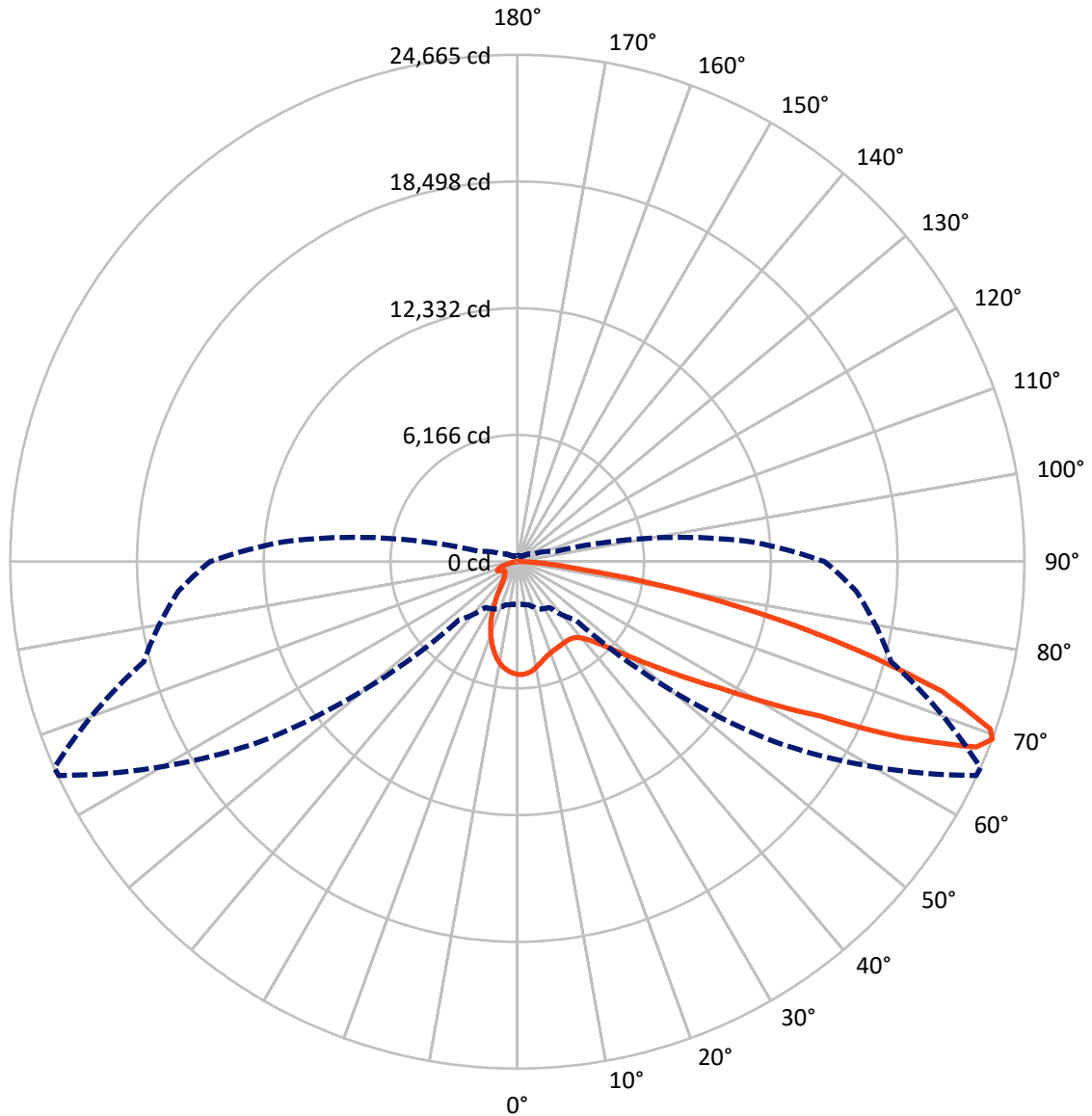
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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
<b>House Side</b>	Lumens	4473.6	0.0	4473.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	19314.4	0.0	19314.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	23788.0	0.0	23788.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.0	2.0
10°-20°	1131.5	4.8
20°-30°	1540.4	6.5
30°-40°	2069.9	8.7
40°-50°	3090.7	13.0
50°-60°	4916.3	20.7
60°-70°	6046.8	25.4
70°-80°	3934.3	16.5
80°-90°	581.0	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°	23788.0	100.0
0°-180°	23788.0	100.0

**Coefficient of Utilization**



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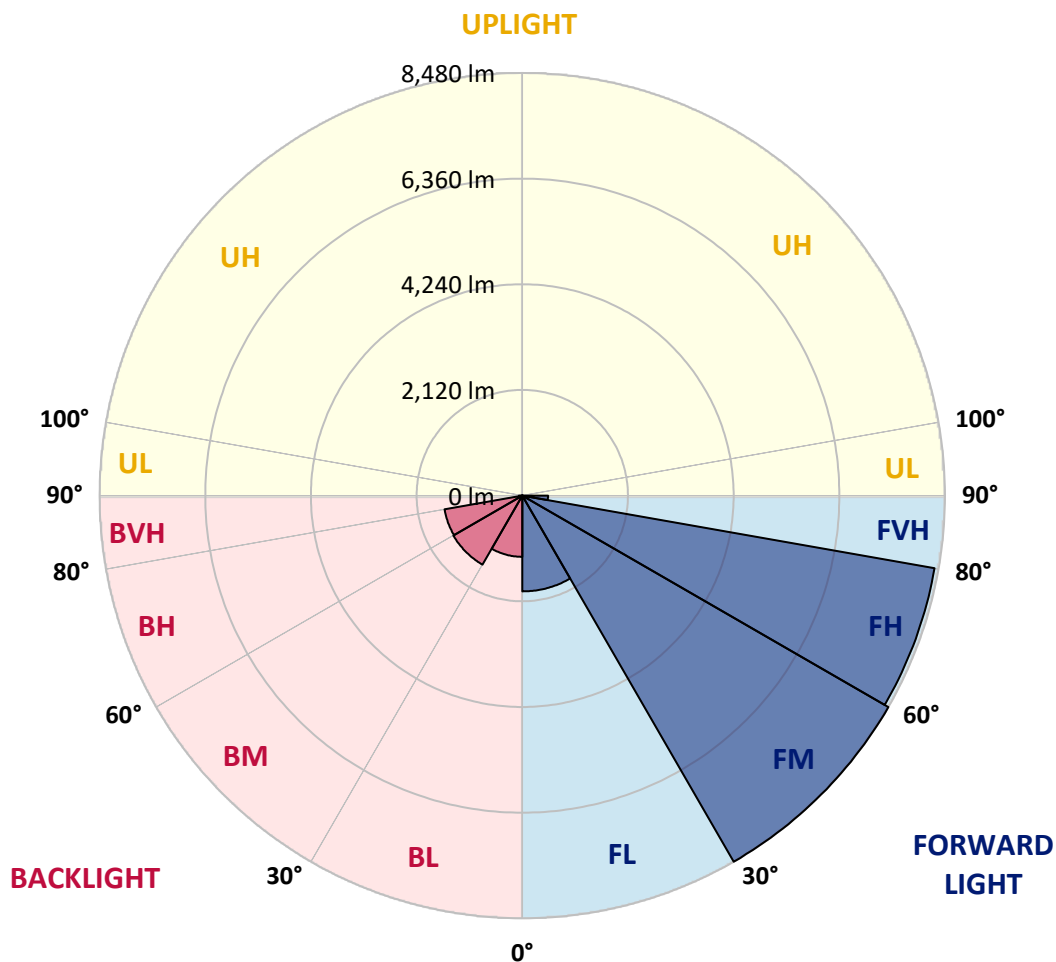
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1920.9	8.1			
FM	(30°-60°)	8479.7	35.6			
FH	(60°-80°)	8397.3	35.3			G4/12000
FVH	(80°-90°)	516.5	2.2			G4/750
BL	(0°-30°)	1228.0	5.2	B3/2500		
BM	(30°-60°)	1597.3	6.7	B2/2500		
BH	(60°-80°)	1583.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	64.5	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°	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3
2.5°	5301.0	5322.1	5345.8	5372.1	5422.2	5449.8	5469.6	5492.0	5494.6	5506.5	5497.3
5°	4909.7	4934.8	4970.3	5020.4	5095.5	5212.7	5333.9	5432.7	5444.6	5499.9	5515.7
7.5°	4583.0	4597.5	4626.5	4706.9	4813.6	4944.0	5120.5	5320.7	5349.7	5481.5	5527.6
10°	4316.9	4331.4	4365.7	4448.7	4554.0	4717.4	4911.0	5174.5	5198.2	5424.8	5530.2
12.5°	4118.0	4131.2	4168.1	4249.7	4370.9	4523.7	4737.2	5016.4	5050.7	5349.7	5505.2
15°	3966.5	3991.5	4021.8	4089.0	4216.8	4364.3	4571.2	4871.5	4899.2	5270.7	5488.0
17.5°	3902.0	3913.8	3934.9	3996.8	4090.3	4235.2	4443.4	4758.2	4791.2	5215.4	5484.1
20°	3904.6	3916.5	3920.4	3954.7	4021.8	4147.0	4352.5	4668.7	4708.2	5166.6	5490.7
22.5°	3994.2	3995.5	3981.0	3969.1	3995.5	4099.6	4287.9	4601.5	4647.6	5145.5	5495.9
25°	4132.5	4156.2	4135.1	4079.8	4031.1	4081.1	4262.9	4564.6	4608.1	5115.2	5489.4
27.5°	4356.4	4360.4	4343.3	4268.2	4141.7	4104.8	4252.4	4536.9	4573.8	5092.8	5456.4
30°	4656.8	4644.9	4629.1	4546.1	4347.2	4195.7	4274.8	4511.9	4550.1	5059.9	5416.9
32.5°	4961.1	4998.0	4983.5	4886.0	4627.8	4372.3	4347.2	4509.3	4540.9	5034.9	5373.4
35°	5283.9	5301.0	5369.5	5319.4	5054.6	4658.1	4482.9	4550.1	4575.1	5036.2	5343.1
37.5°	5536.8	5582.9	5743.6	5787.1	5538.1	5036.2	4702.9	4666.0	4676.6	5100.7	5355.0
40°	5842.4	5921.4	6128.3	6306.1	6142.8	5527.6	5077.0	4880.7	4893.9	5256.2	5432.7
42.5°	6229.7	6285.0	6563.0	6804.1	6777.7	6177.0	5530.2	5232.5	5239.1	5565.8	5650.1
45°	6682.9	6761.9	7074.1	7436.4	7498.3	6912.1	6184.9	5764.7	5760.7	6046.6	6055.8
47.5°	7262.5	7311.2	7620.8	8016.0	8266.3	7835.5	6979.3	6528.7	6486.6	6747.4	6672.3
50°	7796.0	7872.4	8106.9	8539.0	9162.1	8917.1	8023.9	7519.4	7420.6	7664.3	7537.8
52.5°	8020.0	8100.3	8297.9	8834.1	9930.1	10316.1	9350.5	8701.0	8536.4	8723.4	8677.3
55°	7631.4	7735.4	7919.9	8571.9	10267.4	11929.8	11139.4	10067.1	9947.2	9866.9	9880.1
57.5°	6586.7	6685.5	6934.5	7653.7	9864.2	13101.0	13693.8	11823.1	11566.3	11196.1	11259.3
60°	5013.8	5075.7	5204.8	6001.8	8669.4	13405.3	16594.5	14042.9	13879.5	12520.0	12564.8
62.5°	3560.8	3630.6	3720.2	4118.0	6346.9	12547.7	18865.6	17142.6	16559.0	13891.4	13847.9
65°	2891.6	2844.1	2952.2	3137.9	3724.1	9724.6	19376.8	21445.0	20641.4	15697.4	15094.1
67.5°	2377.8	2327.7	2434.4	2765.1	2832.3	5644.8	17535.1	24237.7	24077.0	17661.6	16360.1
69°	2105.1	2078.8	2172.3	2549.1	2719.0	4008.7	15275.9	24626.4	24664.6	18819.5	16555.0
70°	1897.0	1907.5	1998.4	2439.7	2667.6	3305.2	13056.2	24090.2	24414.3	19397.8	16344.2
72.5°	1396.4	1418.8	1545.2	2020.8	2618.9	2804.6	7769.7	21041.9	21614.9	19432.1	14951.8
75°	976.1	965.6	1077.6	1521.5	2474.0	2779.6	4563.3	16273.1	16922.6	16796.1	12563.5
77.5°	638.9	656.0	745.6	1074.9	2081.4	2758.5	2974.6	11545.2	11966.7	11233.0	7431.1
80°	450.5	449.2	499.3	733.8	1543.9	2650.5	2435.8	7277.0	7170.3	4414.4	2203.9
82.5°	258.2	276.6	334.6	516.4	1032.8	2333.0	2240.8	3480.4	3177.4	1258.1	744.3
85°	143.6	150.2	198.9	312.2	603.3	1757.3	1956.3	1583.4	1493.9	525.6	320.1
87.5°	46.1	50.1	83.0	158.1	274.0	829.9	1107.9	731.1	674.5	189.7	129.1
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°	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3	5493.3
2.5°	5501.2	5517.0	5474.9	5434.0	5397.1	5345.8	5299.7	5261.5	5235.1	5231.2	5218.0
5°	5519.7	5521.0	5440.6	5332.6	5227.2	5111.3	4991.4	4905.8	4825.4	4780.6	4758.2
7.5°	5532.8	5521.0	5376.1	5200.9	4998.0	4787.2	4576.4	4407.8	4277.4	4226.0	4245.8
10°	5527.6	5490.7	5278.6	4998.0	4702.9	4388.1	4085.1	3848.0	3630.6	3518.6	3521.3
12.5°	5498.6	5438.0	5133.7	4770.1	4336.7	3915.1	3451.4	3131.3	2879.7	2730.8	2684.7
15°	5473.6	5368.2	4963.7	4460.5	3921.7	3319.7	2754.6	2359.4	2148.6	2031.3	2030.0
17.5°	5447.2	5301.0	4778.0	4132.5	3444.8	2670.2	2077.4	1775.8	1677.0	1688.8	1669.1
20°	5419.5	5221.9	4584.3	3767.6	2863.9	1991.8	1555.8	1433.3	1460.9	1514.9	1522.8
22.5°	5387.9	5137.6	4376.2	3365.8	2252.7	1499.1	1262.0	1243.6	1314.7	1399.0	1410.9
25°	5339.2	5032.2	4114.1	2945.6	1737.6	1208.0	1105.2	1118.4	1188.2	1259.4	1267.3
27.5°	5270.7	4901.8	3849.3	2421.3	1305.5	1036.7	1010.4	1027.5	1061.8	1105.2	1115.8
30°	5178.5	4754.3	3545.0	1968.1	1046.0	951.1	940.6	949.8	969.6	988.0	993.3
32.5°	5086.3	4612.0	3238.0	1507.0	932.7	894.5	883.9	883.9	883.9	886.6	887.9
35°	5000.6	4477.6	2908.7	1173.8	873.4	849.7	835.2	819.4	816.8	807.5	807.5
37.5°	4953.2	4355.1	2558.3	982.7	829.9	812.8	793.0	766.7	752.2	753.5	750.9
40°	4962.4	4274.8	2239.5	874.7	794.4	775.9	745.6	715.3	706.1	706.1	703.5
42.5°	5066.5	4248.4	1933.9	818.1	760.1	739.0	700.8	673.2	667.9	666.6	669.2
45°	5306.2	4313.0	1659.8	781.2	731.1	699.5	661.3	636.3	631.0	631.0	629.7
47.5°	5773.9	4522.4	1463.6	757.5	710.0	669.2	629.7	604.7	595.4	592.8	592.8
50°	6501.1	4976.9	1317.3	736.4	683.7	641.5	600.7	571.7	557.2	555.9	554.6
52.5°	7511.5	5685.6	1260.7	720.6	654.7	612.6	567.8	540.1	521.7	517.7	515.1
55°	8693.1	6675.0	1338.4	708.7	624.4	579.6	533.5	504.5	487.4	479.5	478.2
57.5°	10061.8	7863.2	1633.5	692.9	596.8	544.1	499.3	470.3	451.8	442.6	440.0
60°	11290.9	9084.4	2148.6	683.7	573.0	505.9	459.8	433.4	416.3	407.1	405.7
62.5°	12641.2	10248.9	2763.8	708.7	562.5	469.0	422.9	399.2	384.7	375.4	375.4
65°	14083.7	11414.8	3170.8	793.0	578.3	440.0	383.3	363.6	350.4	343.8	342.5
67.5°	15055.9	11817.9	2612.3	880.0	617.8	408.4	345.1	329.3	321.4	314.8	314.8
69°	14950.5	11308.1	1927.3	902.4	629.7	392.6	324.1	312.2	301.7	299.0	296.4
70°	14617.2	10727.1	1615.1	887.9	620.5	378.1	310.9	296.4	287.2	284.5	283.2
72.5°	13019.3	9303.1	1202.7	772.0	528.3	328.0	275.3	262.2	254.2	250.3	250.3
75°	10816.7	7603.7	939.3	613.9	413.6	276.6	235.8	225.3	218.7	216.0	214.7
77.5°	6062.4	4245.8	674.5	480.8	313.5	223.9	197.6	188.4	181.8	179.2	179.2
80°	1688.8	1213.3	396.5	317.5	213.4	169.9	156.8	150.2	141.0	134.4	138.3
82.5°	636.3	525.6	226.6	191.0	135.7	113.3	109.3	104.1	100.1	90.9	90.9
85°	309.6	255.6	144.9	101.4	75.1	59.3	56.6	54.0	51.4	44.8	46.1
87.5°	106.7	113.3	63.2	36.9	22.4	14.5	11.9	6.6	6.6	6.6	6.6
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)