

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: P454373

Luminaire Tested: **GALN-SA5C-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454373  
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-SA5C-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA 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: 29391 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

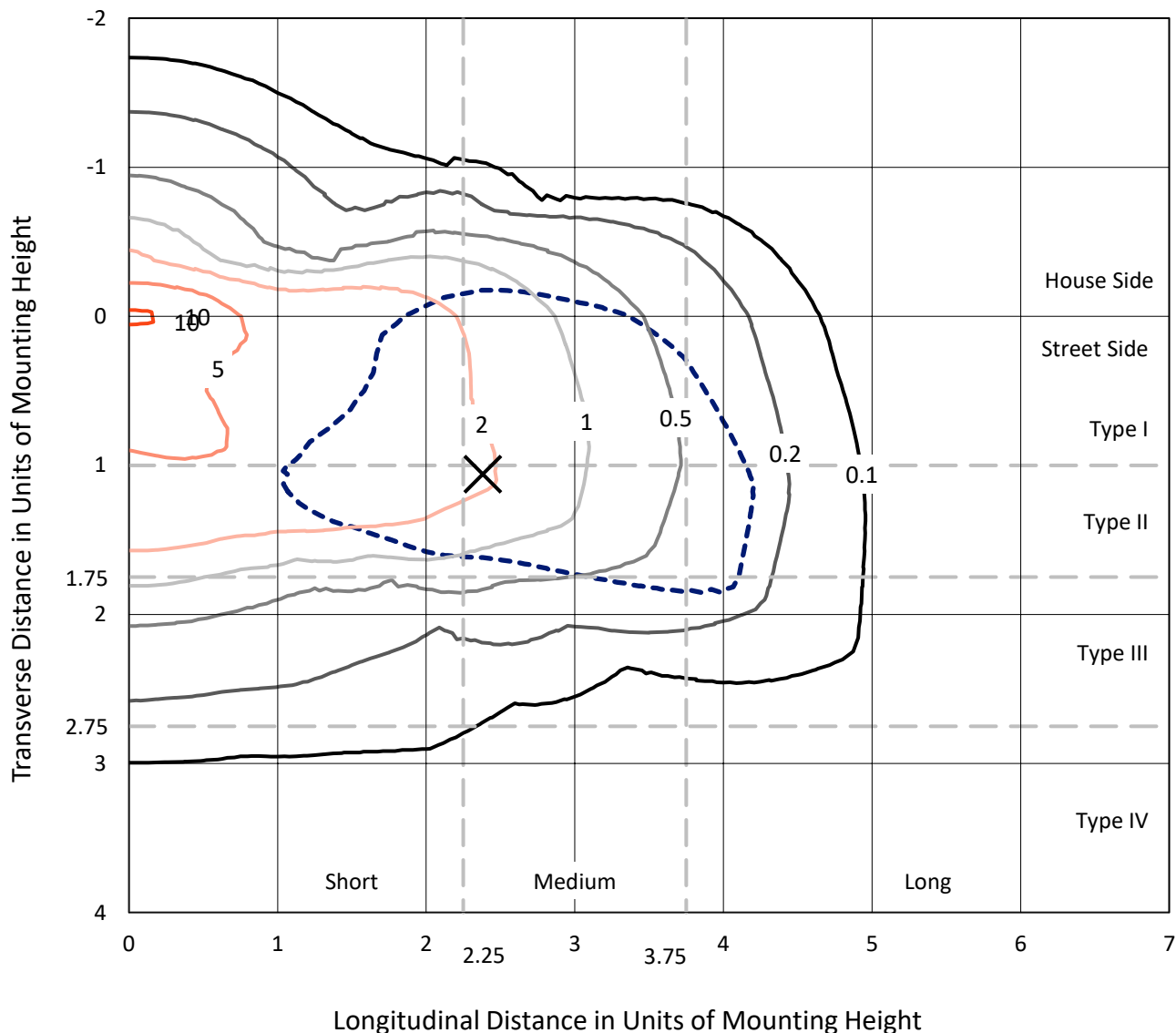
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

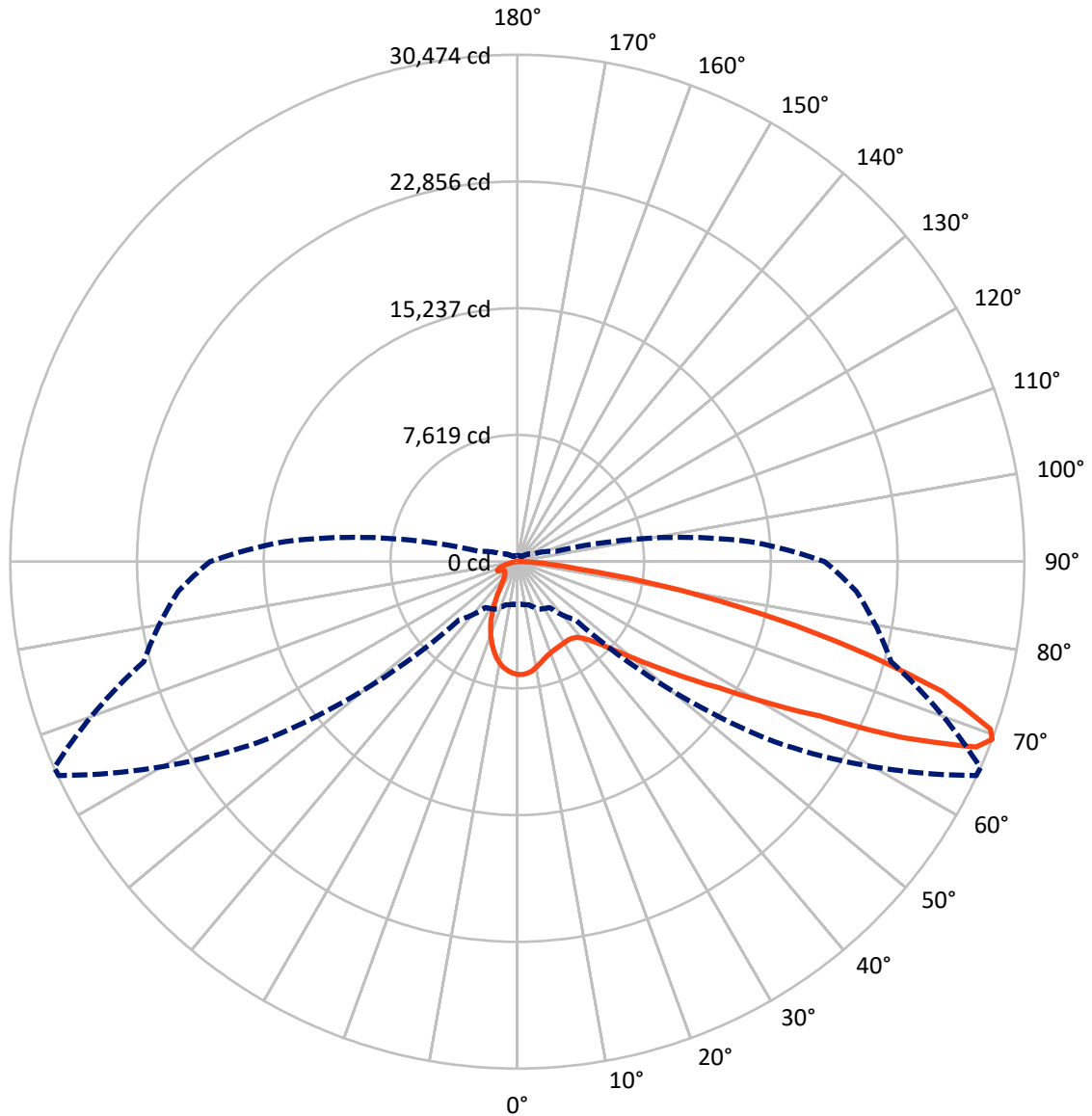
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	5527.3	0.0	5527.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	23863.7	0.0	23863.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	29391.0	0.0	29391.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	589.4	2.0
10°-20°	1398.0	4.8
20°-30°	1903.2	6.5
30°-40°	2557.5	8.7
40°-50°	3818.7	13.0
50°-60°	6074.3	20.7
60°-70°	7471.1	25.4
70°-80°	4861.0	16.5
80°-90°	717.8	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°	29391.0	100.0
0°-180°	29391.0	100.0

**Coefficient of Utilization**



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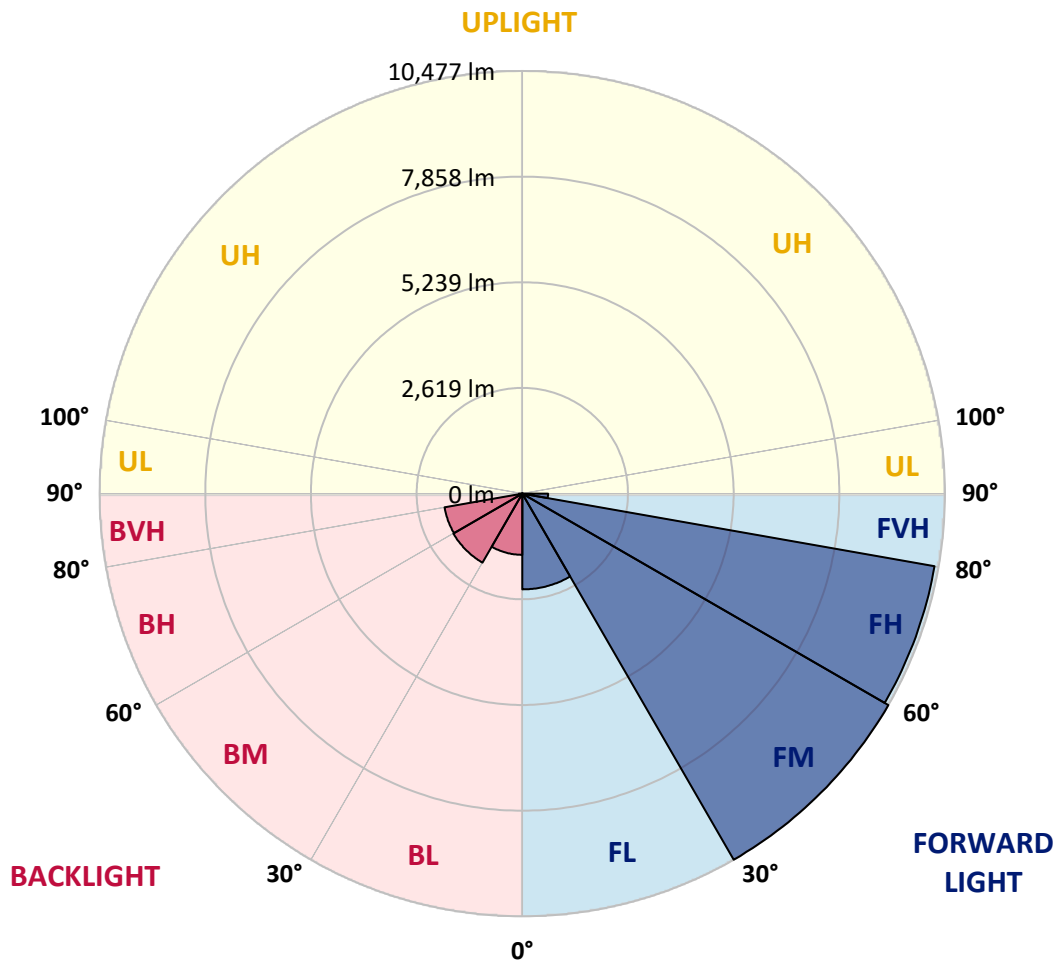
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2373.3	8.1			
FM	(30°-60°)	10477.0	35.6			
FH	(60°-80°)	10375.2	35.3			G4/12000
FVH	(80°-90°)	638.2	2.2			G4/750
BL	(0°-30°)	1517.3	5.2	B3/2500		
BM	(30°-60°)	1973.5	6.7	B2/2500		
BH	(60°-80°)	1956.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	79.6	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°	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2
2.5°	6549.6	6575.6	6604.9	6637.5	6699.3	6733.5	6757.9	6785.6	6788.8	6803.5	6792.1
5°	6066.2	6097.1	6141.0	6202.9	6295.7	6440.5	6590.3	6712.3	6727.0	6795.3	6814.9
7.5°	5662.5	5680.4	5716.2	5815.5	5947.3	6108.5	6326.6	6574.0	6609.8	6772.5	6829.5
10°	5333.7	5351.6	5394.0	5496.5	5626.7	5828.5	6067.8	6393.3	6422.6	6702.6	6832.8
12.5°	5088.0	5104.2	5149.8	5250.7	5400.5	5589.3	5852.9	6198.0	6240.3	6609.8	6801.8
15°	4900.8	4931.7	4969.1	5052.1	5210.0	5392.3	5647.9	6019.0	6053.1	6512.1	6780.7
17.5°	4821.0	4835.7	4861.7	4938.2	5053.8	5232.8	5490.0	5879.0	5919.7	6443.8	6775.8
20°	4824.3	4838.9	4843.8	4886.1	4969.1	5123.8	5377.7	5768.3	5817.1	6383.5	6783.9
22.5°	4935.0	4936.6	4918.7	4904.0	4936.6	5065.2	5297.9	5685.3	5742.3	6357.5	6790.5
25°	5105.9	5135.2	5109.1	5040.8	4980.5	5042.4	5267.0	5639.7	5693.4	6320.1	6782.3
27.5°	5382.6	5387.4	5366.3	5273.5	5117.3	5071.7	5254.0	5605.5	5651.1	6292.4	6741.6
30°	5753.7	5739.0	5719.5	5616.9	5371.2	5184.0	5281.6	5574.6	5621.8	6251.7	6692.8
32.5°	6129.6	6175.2	6157.3	6036.9	5717.8	5402.1	5371.2	5571.4	5610.4	6220.8	6639.1
35°	6528.4	6549.6	6634.2	6572.4	6245.2	5755.3	5538.8	5621.8	5652.7	6222.4	6601.6
37.5°	6840.9	6897.9	7096.4	7150.2	6842.5	6222.4	5810.6	5765.0	5778.1	6302.2	6616.3
40°	7218.5	7316.2	7571.7	7791.4	7589.6	6829.5	6272.9	6030.4	6046.6	6494.2	6712.3
42.5°	7697.0	7765.4	8108.8	8406.7	8374.1	7631.9	6832.8	6464.9	6473.1	6876.7	6980.9
45°	8256.9	8354.6	8740.3	9187.9	9264.4	8540.2	7641.7	7122.5	7117.6	7470.8	7482.2
47.5°	8973.1	9033.3	9415.8	9904.1	10213.4	9681.1	8623.2	8066.5	8014.4	8336.7	8243.9
50°	9632.3	9726.7	10016.4	10550.3	11320.1	11017.4	9913.9	9290.5	9168.4	9469.5	9313.3
52.5°	9909.0	10008.3	10252.4	10914.9	12269.0	12745.9	11552.9	10750.5	10547.0	10778.1	10721.2
55°	9428.8	9557.4	9785.3	10591.0	12685.7	14739.8	13763.2	12438.3	12290.2	12190.9	12207.2
57.5°	8138.1	8260.2	8567.8	9456.5	12187.7	16186.7	16919.2	14607.9	14290.6	13833.2	13911.3
60°	6194.7	6271.2	6430.7	7415.5	10711.4	16562.7	20503.2	17350.5	17148.7	15469.0	15524.3
62.5°	4399.5	4485.7	4596.4	5088.0	7841.9	15503.1	23309.2	21180.3	20459.3	17163.3	17109.6
65°	3572.6	3514.0	3647.5	3877.0	4601.3	12015.1	23940.7	26496.1	25503.3	19394.8	18649.3
67.5°	2937.9	2876.0	3007.9	3416.4	3499.4	6974.4	21665.3	29946.7	29748.1	21821.6	20213.5
69°	2600.9	2568.4	2684.0	3149.5	3359.4	4952.9	18873.9	30426.8	30474.0	23252.3	20454.4
70°	2343.8	2356.8	2469.1	3014.4	3295.9	4083.7	16131.4	29764.4	30164.8	23966.8	20194.0
72.5°	1725.3	1753.0	1909.2	2496.8	3235.7	3465.2	9599.7	25998.1	26706.1	24009.1	18473.5
75°	1206.1	1193.0	1331.4	1879.9	3056.7	3434.3	5638.1	20106.1	20908.5	20752.2	15522.7
77.5°	789.4	810.6	921.2	1328.1	2571.6	3408.2	3675.2	14264.5	14785.4	13878.8	9181.4
80°	556.6	555.0	616.9	906.6	1907.6	3274.8	3009.5	8991.0	8859.2	5454.2	2723.0
82.5°	319.0	341.8	413.4	638.0	1276.1	2882.5	2768.6	4300.2	3925.8	1554.4	919.6
85°	177.4	185.5	245.8	385.7	745.5	2171.3	2417.0	1956.4	1845.7	649.4	395.5
87.5°	57.0	61.8	102.5	195.3	338.5	1025.4	1368.8	903.3	833.3	234.4	159.5
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°	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2	6787.2
2.5°	6797.0	6816.5	6764.4	6714.0	6668.4	6604.9	6547.9	6500.7	6468.2	6463.3	6447.0
5°	6819.8	6821.4	6722.1	6588.6	6458.4	6315.2	6167.1	6061.3	5962.0	5906.7	5879.0
7.5°	6836.0	6821.4	6642.3	6425.9	6175.2	5914.8	5654.4	5446.0	5284.9	5221.4	5245.8
10°	6829.5	6783.9	6521.9	6175.2	5810.6	5421.6	5047.3	4754.3	4485.7	4347.4	4350.6
12.5°	6793.7	6718.8	6342.9	5893.6	5358.1	4837.3	4264.4	3868.9	3558.0	3374.1	3317.1
15°	6762.8	6632.6	6132.9	5511.1	4845.4	4101.6	3403.4	2915.1	2654.7	2509.8	2508.2
17.5°	6730.2	6549.6	5903.4	5105.9	4256.2	3299.2	2566.8	2194.0	2072.0	2086.6	2062.2
20°	6696.1	6451.9	5664.1	4655.0	3538.5	2461.0	1922.2	1770.9	1805.0	1871.8	1881.5
22.5°	6657.0	6347.7	5407.0	4158.6	2783.2	1852.2	1559.3	1536.5	1624.4	1728.5	1743.2
25°	6596.8	6217.5	5083.1	3639.4	2146.8	1492.5	1365.6	1381.9	1468.1	1556.0	1565.8
27.5°	6512.1	6056.4	4755.9	2991.6	1613.0	1280.9	1248.4	1269.5	1311.9	1365.6	1378.6
30°	6398.2	5874.1	4379.9	2431.7	1292.3	1175.1	1162.1	1173.5	1197.9	1220.7	1227.2
32.5°	6284.3	5698.3	4000.7	1862.0	1152.4	1105.2	1092.1	1092.1	1092.1	1095.4	1097.0
35°	6178.5	5532.3	3593.8	1450.2	1079.1	1049.8	1031.9	1012.4	1009.1	997.7	997.7
37.5°	6119.9	5380.9	3160.8	1214.2	1025.4	1004.2	979.8	947.3	929.4	931.0	927.7
40°	6131.3	5281.6	2767.0	1080.7	981.5	958.7	921.2	883.8	872.4	872.4	869.2
42.5°	6259.8	5249.1	2389.4	1010.8	939.1	913.1	865.9	831.7	825.2	823.6	826.8
45°	6556.1	5328.8	2050.8	965.2	903.3	864.3	817.1	786.1	779.6	779.6	778.0
47.5°	7133.9	5587.6	1808.3	935.9	877.3	826.8	778.0	747.1	735.7	732.4	732.4
50°	8032.3	6149.2	1627.6	909.8	844.7	792.7	742.2	706.4	688.5	686.9	685.2
52.5°	9280.7	7024.8	1557.6	890.3	808.9	756.8	701.5	667.3	644.5	639.7	636.4
55°	10740.7	8247.2	1653.7	875.7	771.5	716.2	659.2	623.4	602.2	592.5	590.8
57.5°	12431.8	9715.3	2018.3	856.1	737.3	672.2	616.9	581.1	558.3	546.9	543.6
60°	13950.4	11224.1	2654.7	844.7	708.0	625.0	568.0	535.5	514.3	502.9	501.3
62.5°	15618.7	12662.9	3414.8	875.7	695.0	579.4	522.5	493.2	475.3	463.9	463.9
65°	17400.9	14103.4	3917.7	979.8	714.5	543.6	473.6	449.2	432.9	424.8	423.2
67.5°	18602.1	14601.4	3227.6	1087.3	763.4	504.6	426.4	406.9	397.1	389.0	389.0
69°	18471.9	13971.5	2381.2	1114.9	778.0	485.0	400.4	385.7	372.7	369.5	366.2
70°	18060.1	13253.8	1995.5	1097.0	766.6	467.1	384.1	366.2	354.8	351.6	349.9
72.5°	16085.8	11494.3	1486.0	953.8	652.7	405.3	340.2	323.9	314.1	309.2	309.2
75°	13364.4	9394.7	1160.5	758.5	511.1	341.8	291.3	278.3	270.2	266.9	265.3
77.5°	7490.3	5245.8	833.3	594.1	387.4	276.7	244.1	232.8	224.6	221.4	221.4
80°	2086.6	1499.0	489.9	392.3	263.7	210.0	193.7	185.5	174.2	166.0	170.9
82.5°	786.1	649.4	280.0	236.0	167.6	140.0	135.1	128.6	123.7	112.3	112.3
85°	382.5	315.8	179.0	125.3	92.8	73.2	70.0	66.7	63.5	55.3	57.0
87.5°	131.8	140.0	78.1	45.6	27.7	17.9	14.6	8.1	8.1	8.1	8.1
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)