

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: P454406

Luminaire Tested: **GALN-SA5C-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31386 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

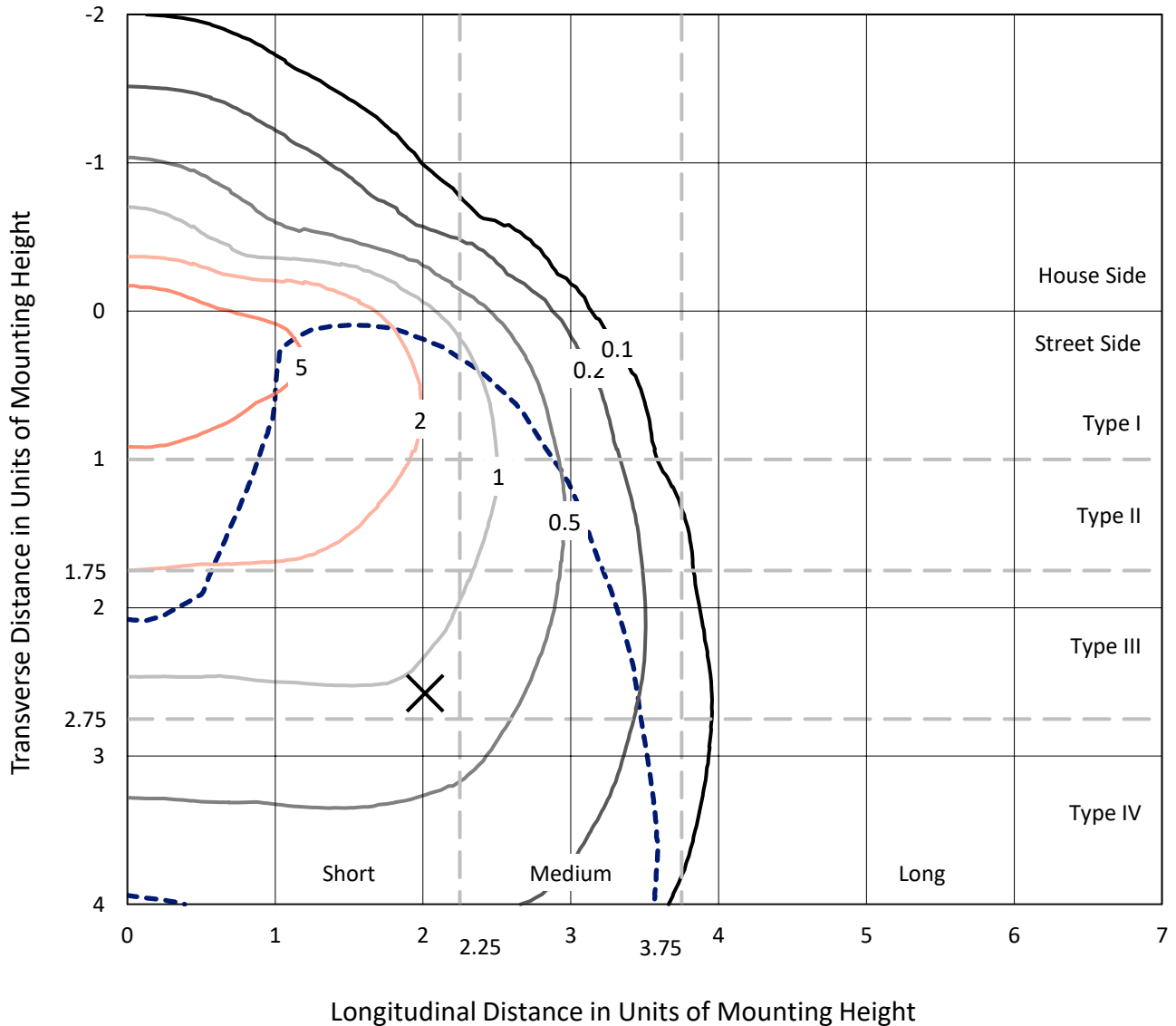
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

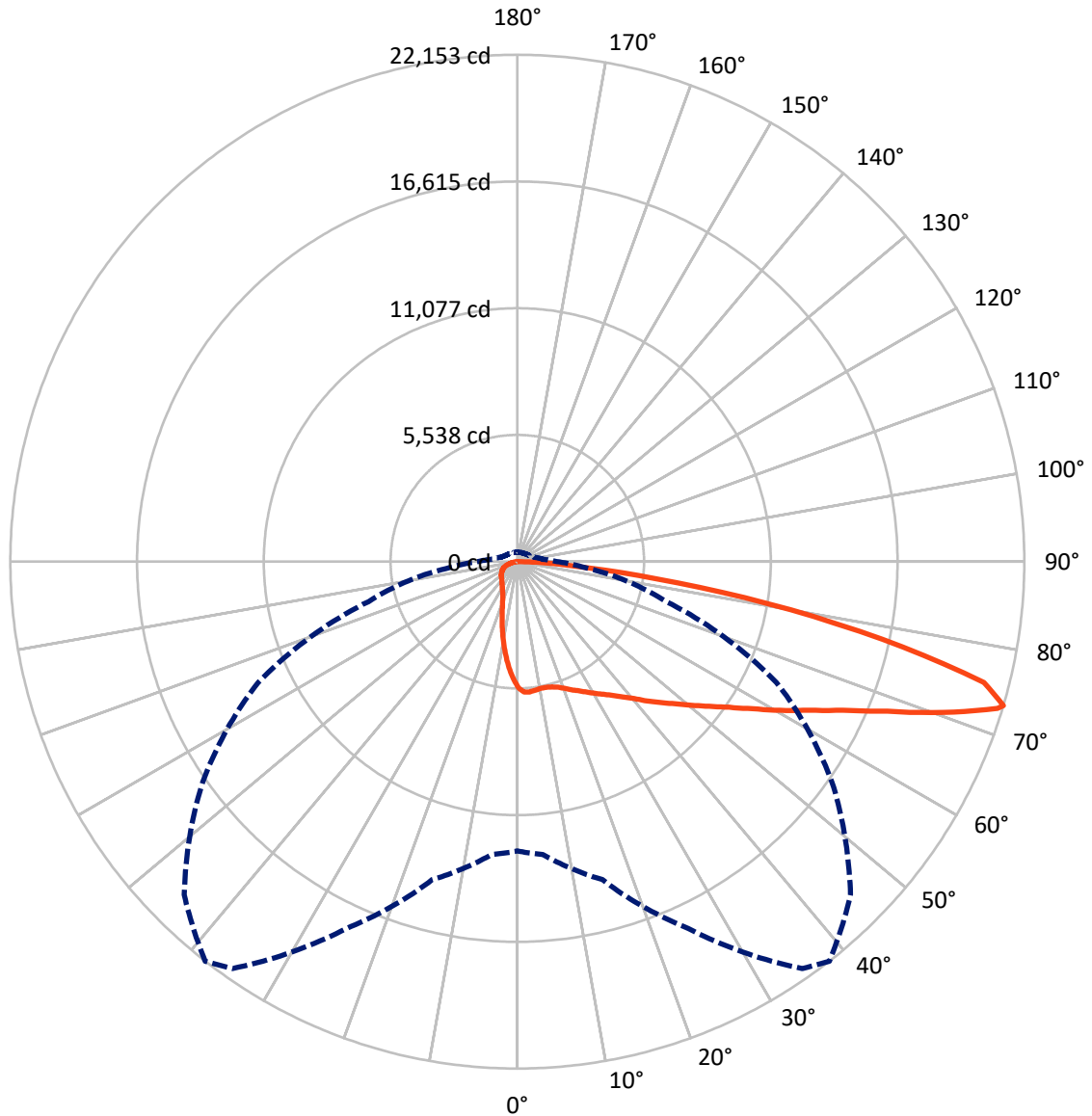
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4219.2	0.0	4219.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	27166.8	0.0	27166.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	31386.0	0.0	31386.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.3	1.5
10°-20°	1234.2	3.9
20°-30°	1921.9	6.1
30°-40°	2819.1	9.0
40°-50°	4181.7	13.3
50°-60°	5924.7	18.9
60°-70°	7515.7	23.9
70°-80°	6256.2	19.9
80°-90°	1051.1	3.3
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°	31386.0	100.0
0°-180°	31386.0	100.0

**Coefficient of Utilization**



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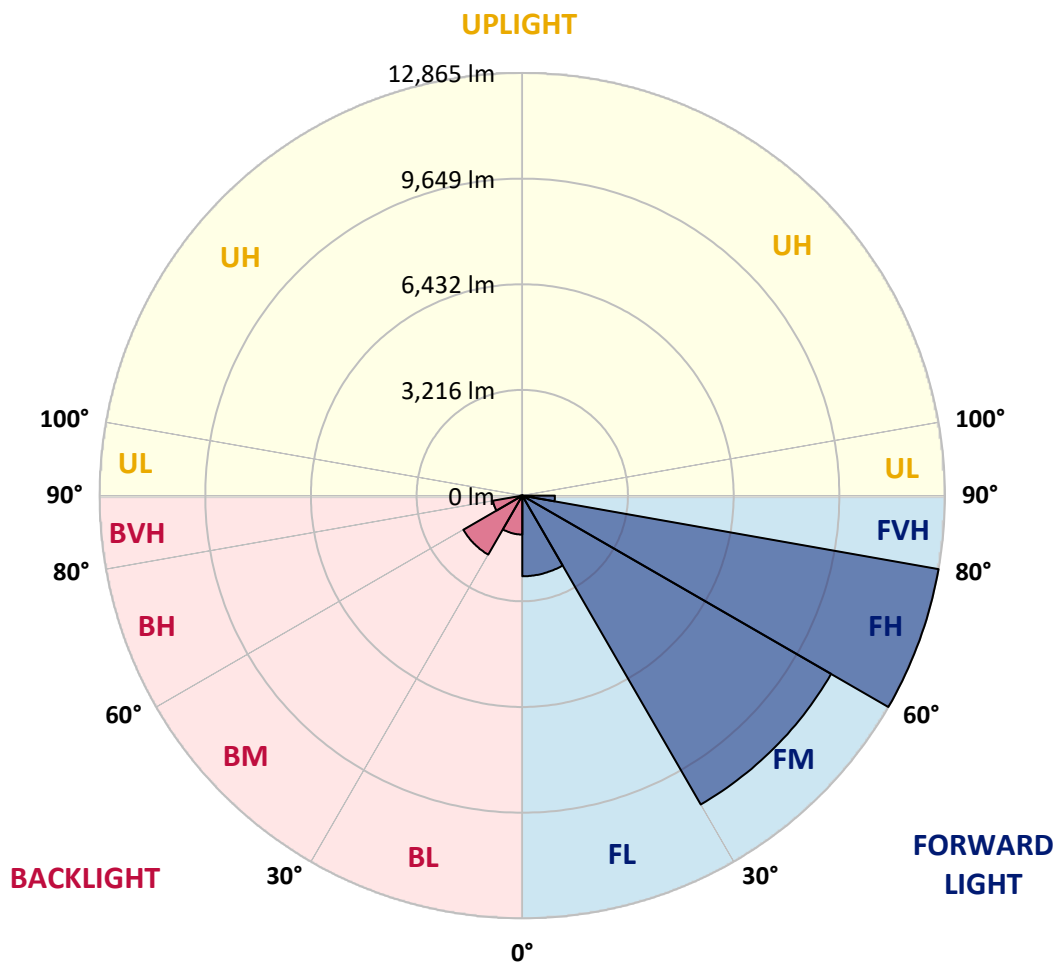
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2453.5	7.8			
FM (30°-60°)	10854.1	34.6			
FH (60°-80°)	12865.0	41.0			G5
FVH (80°-90°)	994.1	3.2			G5
BL (0°-30°)	1184.0	3.8	B3/2500		
BM (30°-60°)	2071.4	6.6	B2/2500		
BH (60°-80°)	906.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	57.0	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0
2.5°	5735.5	5763.9	5749.7	5730.2	5717.8	5705.4	5687.7	5636.3	5595.5	5551.2	5482.1
5°	5778.1	5795.8	5783.4	5758.6	5730.2	5717.8	5684.1	5616.8	5551.2	5476.8	5374.0
7.5°	5753.3	5760.4	5746.2	5716.0	5691.2	5668.2	5629.2	5554.8	5475.0	5384.6	5249.9
10°	5664.6	5691.2	5691.2	5666.4	5641.6	5629.2	5590.2	5519.3	5446.6	5343.8	5184.3
12.5°	5592.0	5620.3	5643.4	5636.3	5634.5	5634.5	5604.4	5551.2	5466.1	5368.7	5179.0
15°	5542.3	5576.0	5625.7	5654.0	5671.7	5677.1	5664.6	5618.6	5531.7	5418.3	5200.3
17.5°	5531.7	5572.5	5662.9	5724.9	5771.0	5769.2	5765.7	5701.9	5606.2	5489.2	5226.9
20°	5579.6	5632.7	5758.6	5856.1	5923.4	5911.0	5891.5	5808.2	5696.5	5565.4	5251.7
22.5°	5723.1	5778.1	5916.3	6022.7	6088.3	6088.3	6029.8	5919.9	5801.1	5654.0	5285.3
25°	5928.7	5989.0	6136.1	6244.2	6274.4	6251.3	6192.8	6059.9	5923.4	5781.6	5356.2
27.5°	6180.4	6253.1	6389.6	6480.0	6471.1	6453.4	6393.1	6223.0	6086.5	5957.1	5476.8
30°	6494.1	6547.3	6689.1	6710.4	6678.5	6674.9	6589.8	6419.7	6292.1	6192.8	5648.7
32.5°	6790.1	6838.0	6951.4	6960.3	6903.6	6910.7	6830.9	6674.9	6602.3	6566.8	5937.6
35°	7103.8	7128.7	7226.1	7215.5	7178.3	7173.0	7141.1	6992.2	7015.2	7079.0	6347.0
37.5°	7366.2	7415.8	7470.7	7479.6	7477.8	7495.6	7516.8	7445.9	7578.9	7779.1	6884.1
40°	7607.2	7649.8	7731.3	7759.6	7828.8	7864.2	7936.9	7938.7	8245.3	8575.0	7545.2
42.5°	7770.3	7842.9	7995.4	8046.8	8215.2	8321.5	8429.6	8544.8	8989.7	9413.3	8325.0
45°	7912.1	8007.8	8261.2	8420.8	8649.4	8778.8	9007.4	9248.5	9888.3	10443.1	9117.3
47.5°	8126.5	8211.6	8502.3	8784.1	9129.7	9278.6	9620.7	9980.5	10817.1	11425.0	9875.9
50°	8424.3	8475.7	8771.7	9230.7	9672.1	9863.5	10315.5	10834.8	11809.6	12394.5	10542.3
52.5°	8805.4	8826.6	9062.4	9673.9	10255.2	10492.7	11091.8	11698.0	12678.1	13236.4	11070.5
55°	9255.6	9220.1	9404.4	10143.5	10921.6	11231.8	11875.2	12571.8	13654.7	13917.0	11455.1
57.5°	9700.4	9645.5	9792.6	10714.3	11744.0	12118.0	12867.7	13472.1	14526.7	14553.3	11724.5
60°	10171.9	10131.1	10306.6	11384.2	12752.5	13195.6	13888.7	14406.2	15370.4	14996.4	11767.1
62.5°	10655.8	10590.2	10840.1	12137.5	13888.7	14291.0	14962.7	15398.8	16198.1	15161.3	11357.6
65°	11125.5	11095.3	11481.7	13032.6	15182.5	15639.8	16292.1	16588.0	16861.0	14913.1	10342.1
67.5°	11625.3	11685.5	12302.3	14227.2	16869.9	17444.1	18147.8	17869.5	17050.6	13738.0	8709.7
70°	12387.4	12426.4	13380.0	15792.2	19044.6	19737.6	20077.9	18325.0	16136.1	11506.5	6547.3
72.5°	12715.3	12887.2	14342.4	17435.3	21515.4	21939.0	20726.6	17309.4	13442.0	7816.4	3440.3
73°	12642.6	12848.2	14386.7	17685.2	21708.6	22153.4	20588.4	16786.6	12495.5	6731.6	2949.3
75°	11736.9	11990.4	13810.7	17476.0	21332.8	21066.9	18365.8	14306.9	8443.8	3061.0	1343.5
77.5°	9260.9	9333.5	10942.9	14112.0	16799.0	16306.2	13745.1	8941.8	3449.1	1137.9	762.1
80°	4645.5	4913.1	6168.0	8084.0	11233.6	11072.3	8676.0	4229.0	1437.4	668.2	505.1
82.5°	2235.0	2424.7	3004.2	3941.9	6207.0	6059.9	4296.3	2311.2	912.8	389.9	297.8
85°	1439.2	1581.0	1912.4	1880.5	2552.3	2437.1	1930.2	1749.4	540.6	203.8	207.4
87.5°	950.0	1040.4	1247.8	997.9	928.7	840.1	852.5	985.5	106.3	78.0	28.4
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°	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0
2.5°	5453.7	5430.7	5354.5	5280.0	5209.1	5141.8	5097.5	5039.0	5000.0	5010.6	5026.6
5°	5317.3	5265.8	5131.1	5000.0	4875.9	4728.8	4610.1	4514.3	4441.7	4415.1	4409.8
7.5°	5173.7	5086.8	4893.6	4668.5	4457.6	4275.1	4064.2	3959.6	3837.3	3794.7	3780.6
10°	5086.8	4969.9	4698.7	4385.0	4067.7	3764.6	3536.0	3349.9	3181.5	3149.6	3133.6
12.5°	5062.0	4907.8	4542.7	4138.6	3716.8	3344.6	3006.0	2761.4	2598.4	2561.1	2506.2
15°	5047.8	4856.4	4397.4	3890.5	3355.2	2901.4	2545.2	2259.8	2110.9	2011.7	2013.5
17.5°	5035.4	4797.9	4234.3	3619.3	3043.2	2520.4	2126.9	1869.9	1733.4	1680.3	1674.9
20°	5017.7	4728.8	4046.4	3333.9	2687.0	2173.0	1816.7	1625.3	1533.1	1488.8	1487.1
22.5°	5010.6	4661.5	3862.1	3043.2	2371.5	1905.3	1611.1	1476.4	1417.9	1387.8	1387.8
25°	5028.3	4613.6	3668.9	2766.7	2091.5	1676.7	1469.3	1377.2	1343.5	1327.5	1322.2
27.5°	5083.3	4592.3	3477.5	2490.2	1834.5	1520.7	1373.6	1309.8	1285.0	1272.6	1274.4
30°	5187.9	4590.6	3289.6	2217.3	1643.0	1402.0	1297.4	1253.1	1233.6	1226.5	1224.7
32.5°	5356.2	4629.6	3105.3	1992.2	1481.7	1302.7	1226.5	1194.6	1185.7	1180.4	1178.7
35°	5641.6	4739.4	2922.7	1786.6	1357.7	1214.1	1159.2	1143.2	1130.8	1136.1	1137.9
37.5°	6026.2	4929.1	2749.0	1625.3	1263.7	1148.5	1102.4	1088.3	1081.2	1086.5	1091.8
40°	6542.0	5202.0	2603.7	1495.9	1196.4	1093.6	1052.8	1040.4	1033.3	1042.2	1044.0
42.5°	7110.9	5517.5	2483.2	1394.9	1141.4	1047.5	1008.5	994.3	989.0	994.3	996.1
45°	7695.8	5884.4	2421.1	1322.2	1095.4	1013.8	973.1	957.1	944.7	941.2	946.5
47.5°	8271.9	6203.5	2419.3	1277.9	1058.1	983.7	939.4	921.7	905.7	896.8	895.1
50°	8741.6	6456.9	2461.9	1258.4	1026.2	950.0	905.7	888.0	866.7	849.0	852.5
52.5°	9096.0	6621.7	2481.4	1249.6	1008.5	914.6	870.3	854.3	829.5	806.4	806.4
55°	9324.7	6660.7	2433.5	1240.7	994.3	877.3	829.5	815.3	790.5	767.5	767.5
57.5°	9402.7	6540.2	2261.6	1219.4	980.1	845.4	788.7	776.3	756.8	733.8	730.2
60°	9221.9	6132.6	1960.3	1155.6	951.8	811.8	744.4	739.1	732.0	712.5	710.7
62.5°	8525.3	5267.6	1632.4	1072.3	903.9	776.3	703.6	712.5	717.8	707.2	705.4
65°	7366.2	4276.8	1394.9	957.1	840.1	726.7	659.3	682.4	696.6	696.6	693.0
67.5°	5974.8	3284.3	1175.1	857.8	760.4	659.3	609.7	627.4	638.1	634.5	643.4
70°	4246.7	2224.4	957.1	744.4	659.3	583.1	545.9	545.9	538.8	535.3	535.3
72.5°	2059.5	1270.8	776.3	622.1	561.9	498.0	467.9	455.5	441.3	439.6	430.7
73°	1721.0	1139.7	740.9	599.1	538.8	485.6	452.0	432.5	423.6	416.5	414.7
75°	1047.5	864.9	618.6	505.1	459.1	418.3	388.2	370.4	361.6	356.3	354.5
77.5°	689.5	645.2	480.3	386.4	350.9	326.1	313.7	296.0	290.7	283.6	283.6
80°	514.0	492.7	343.8	273.0	251.7	230.4	226.9	223.3	209.1	200.3	196.7
82.5°	331.4	350.9	234.0	182.6	159.5	141.8	143.6	148.9	134.7	122.3	118.8
85°	235.7	253.5	141.8	83.3	67.4	58.5	65.6	58.5	60.3	47.9	39.0
87.5°	39.0	67.4	24.8	10.6	5.3	3.5	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)