

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: P459202

Luminaire Tested: **GALN-SA6D-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42377 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

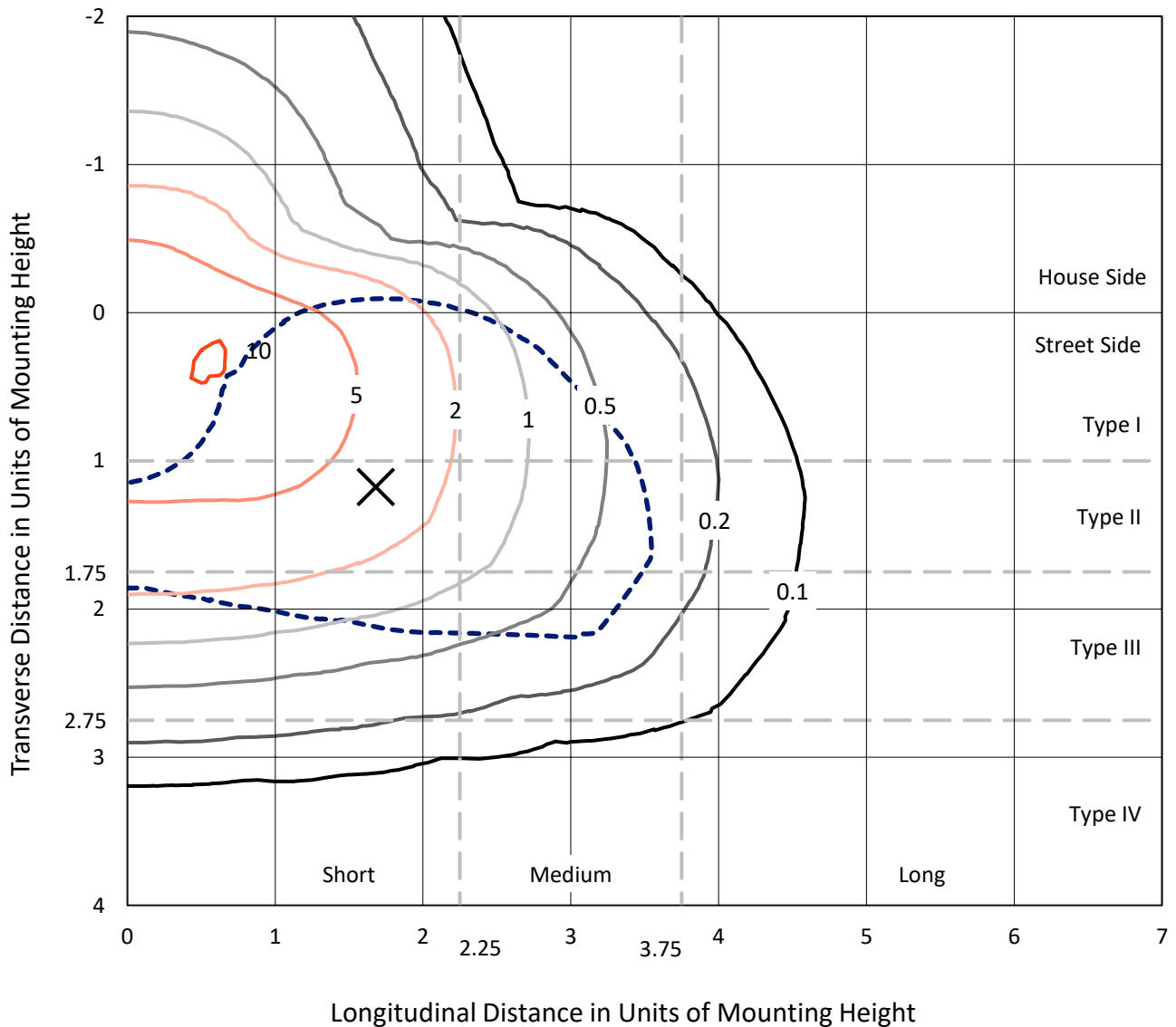
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459202  
 CATALOG NUMBER: GALN-SA6D-735-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

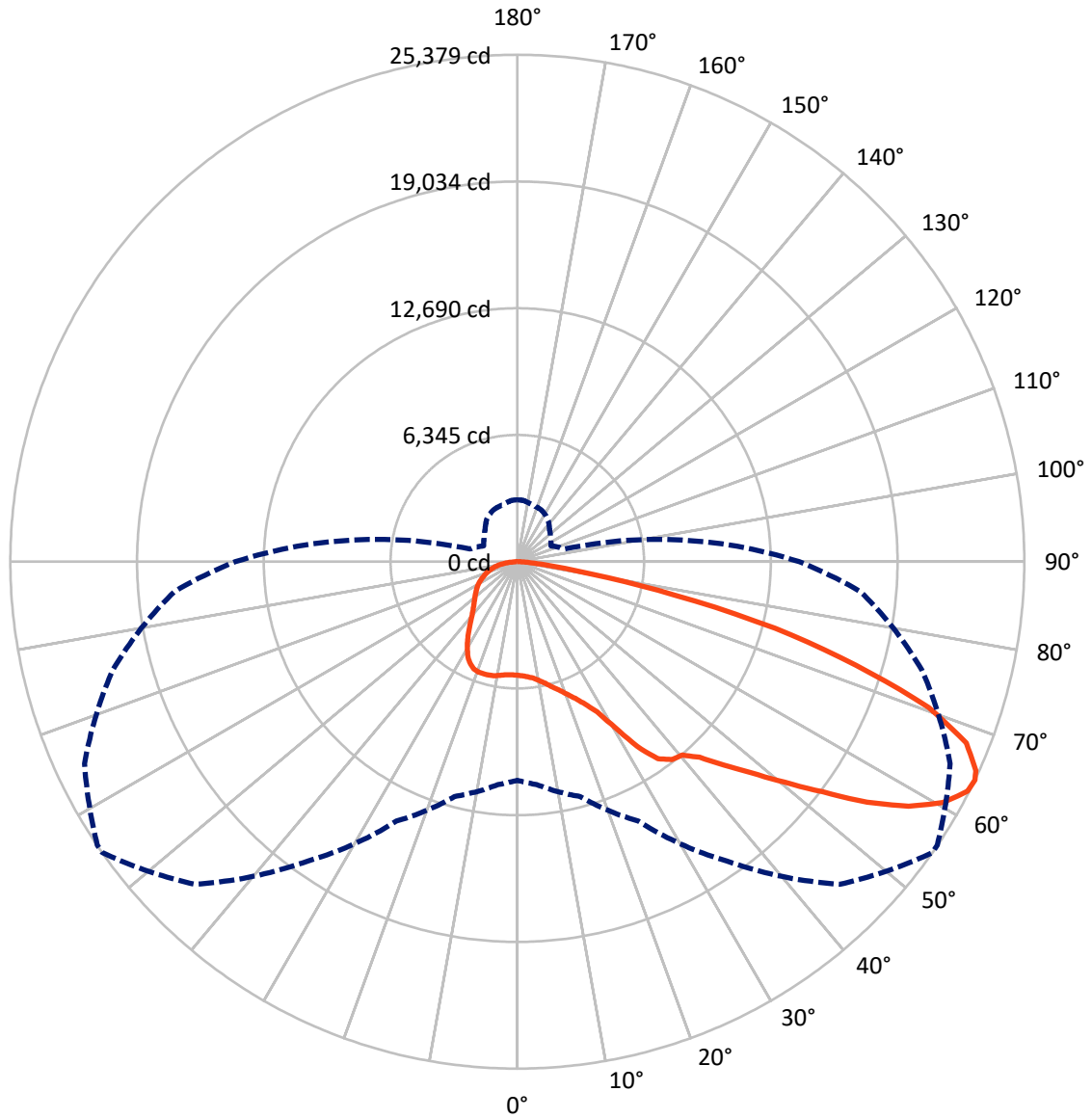
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P459202  
CATALOG NUMBER: GALN-SA6D-735-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P459202

CATALOG NUMBER: GALN-SA6D-735-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10294.2	0.0	10294.2
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	32082.8	0.0	32082.8
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	42377.0	0.0	42377.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.1	1.3
10°-20°	1745.1	4.1
20°-30°	3106.7	7.3
30°-40°	4780.0	11.3
40°-50°	6776.1	16.0
50°-60°	9808.3	23.1
60°-70°	10150.5	24.0
70°-80°	4753.5	11.2
80°-90°	703.7	1.7
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°	42377.0	100.0
0°-180°	42377.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459202

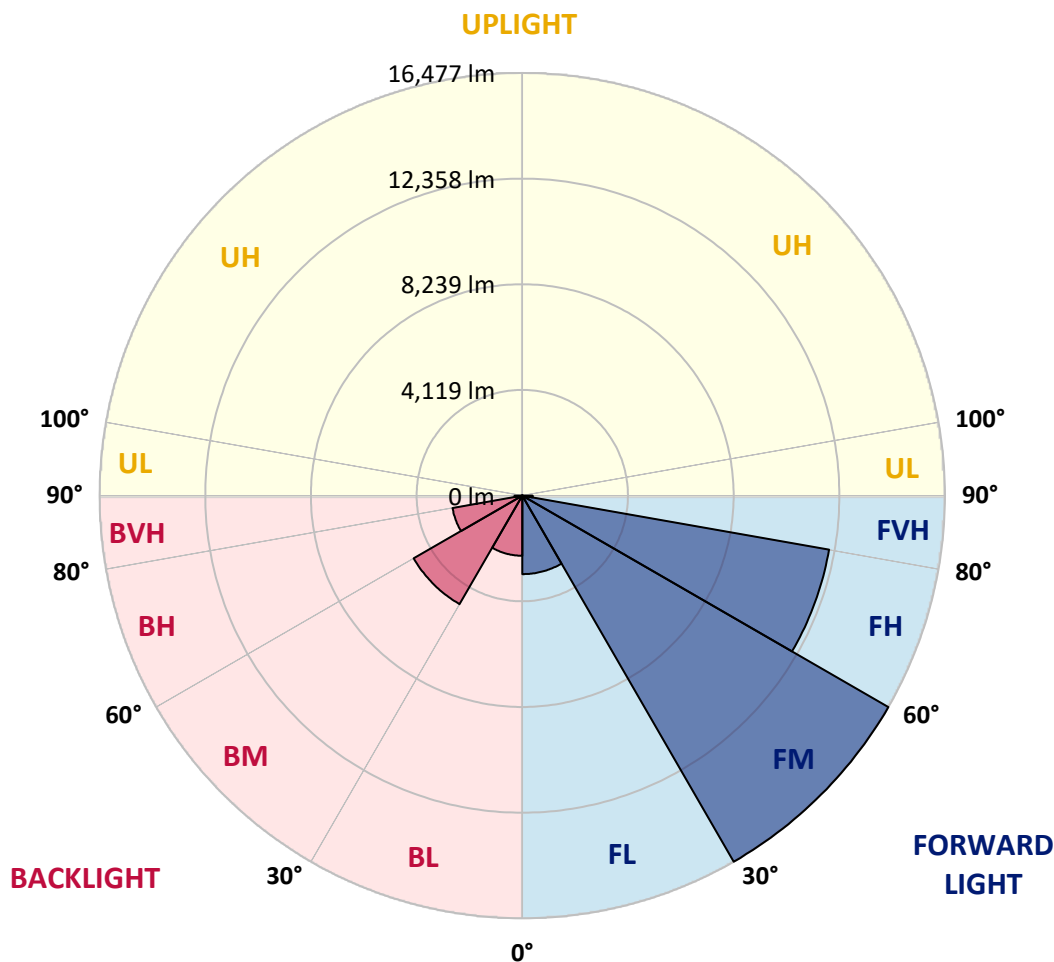
CATALOG NUMBER: GALN-SA6D-735-U-T3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3060.3	7.2			
FM	(30°-60°)	16477.3	38.9			
FH	(60°-80°)	12142.2	28.7			G5
FVH	(80°-90°)	402.9	1.0			G3/500
BL	(0°-30°)	2344.6	5.5	B3/2500		
BM	(30°-60°)	4887.1	11.5	B3/5000		
BH	(60°-80°)	2761.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	300.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





REPORT NUMBER: P459202

CATALOG NUMBER: GALN-SA6D-735-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7
2.5°	5749.5	5747.1	5754.2	5747.1	5751.9	5735.3	5728.2	5733.0	5725.9	5714.1	5692.8
5°	5820.4	5818.0	5820.4	5810.9	5815.6	5806.2	5789.6	5794.4	5782.6	5756.6	5725.9
7.5°	5940.8	5931.4	5931.4	5929.0	5919.6	5905.4	5893.6	5888.9	5877.0	5844.0	5796.7
10°	6096.7	6096.7	6099.1	6080.2	6092.0	6066.0	6054.2	6051.8	6011.7	5969.2	5903.0
12.5°	6302.2	6314.0	6307.0	6297.5	6292.8	6283.3	6243.2	6252.6	6207.8	6134.5	6054.2
15°	6557.4	6576.2	6564.4	6559.7	6547.9	6512.5	6495.9	6488.8	6429.8	6323.5	6217.2
17.5°	6895.1	6871.5	6862.1	6850.3	6800.7	6774.7	6746.3	6741.6	6689.6	6564.4	6399.1
20°	7190.4	7223.5	7204.6	7192.8	7143.2	7093.6	7072.3	7065.2	7020.3	6883.3	6618.8
22.5°	7542.4	7549.5	7556.5	7528.2	7504.6	7466.8	7429.0	7417.2	7400.6	7258.9	6935.3
25°	7918.0	7946.3	7922.7	7894.3	7866.0	7863.6	7899.1	7894.3	7887.2	7750.2	7355.8
27.5°	8529.8	8555.7	8562.8	8532.1	8423.5	8432.9	8513.2	8539.2	8647.9	8421.1	7896.7
30°	8874.6	8900.6	8959.7	9075.4	9247.8	9399.0	9592.7	9651.8	9755.7	9328.2	8539.2
32.5°	9087.2	9096.7	9203.0	9417.9	9935.2	10499.8	11026.6	11047.8	11114.0	10514.0	9127.4
35°	9422.6	9429.7	9514.8	9751.0	10358.1	11298.2	12113.1	12139.1	12084.8	10882.5	9401.4
37.5°	9836.0	9854.9	9909.3	10105.3	10830.5	11966.7	12564.3	12545.4	12063.5	11175.4	9885.6
40°	10438.4	10438.4	10374.6	10639.2	11328.9	12349.4	12722.6	12689.5	12562.0	12023.4	10622.6
42.5°	10969.9	10960.4	11111.6	11291.1	11952.5	12939.9	13386.3	13440.7	13650.9	13088.7	11461.2
45°	11662.0	11704.5	11789.5	12115.5	13013.1	13948.5	14524.9	14576.9	14874.5	14343.0	12441.5
47.5°	12361.2	12375.3	12642.3	13076.9	14326.5	15316.2	15788.7	15873.7	16145.3	15809.9	13497.4
50°	12857.2	12991.9	13419.4	14104.4	15680.0	16983.9	17352.4	17454.0	17933.5	17406.7	14728.1
52.5°	13381.6	13513.9	14035.9	15080.0	17234.3	18689.4	19142.9	19211.4	19709.8	19022.5	15987.1
55°	13830.4	13953.3	14546.2	15944.6	18472.1	20430.3	21252.3	21172.0	21410.6	20267.3	16957.9
57.5°	13903.7	14002.9	14749.3	16497.3	19402.8	21923.2	23101.9	23149.1	22872.8	21198.0	17758.7
60°	13336.7	13539.9	14397.4	16438.3	19820.9	22962.5	24481.4	24514.5	23730.2	21675.2	18077.6
62.5°	12332.8	12311.6	13348.6	15488.7	19235.1	23198.8	25294.0	25258.6	24065.7	21446.0	17768.2
64°	10946.2	11201.4	12169.8	14321.8	18290.2	22835.0	25379.0	25360.1	23905.0	20968.9	17241.4
65°	10100.6	10086.4	11043.1	13367.5	17350.1	22287.0	25227.8	25201.9	23569.6	20541.3	16832.7
67.5°	7292.0	7325.1	8269.9	10315.5	14104.4	20144.5	24242.8	24146.0	22246.8	19124.0	15278.4
70°	4417.2	4436.1	5177.9	6843.2	10124.2	16284.7	21852.3	21857.0	20222.4	17007.5	13003.7
72.5°	2326.7	2376.3	2674.0	3885.7	6148.7	11425.8	17728.0	18148.5	17361.9	14515.5	10273.0
75°	1294.5	1301.5	1511.8	1915.7	3136.9	6394.4	13324.9	13445.4	13745.4	11683.2	7596.7
77.5°	987.4	1001.6	1067.7	1237.8	1707.8	2964.5	8064.4	8669.1	9687.2	8236.8	4334.6
80°	800.8	814.9	871.6	973.2	1136.2	1405.5	3746.4	4072.4	5184.9	3656.6	1691.3
82.5°	623.6	614.2	687.4	753.5	826.8	831.5	1537.8	1700.8	2111.8	1573.2	732.3
85°	463.0	463.0	522.0	507.9	533.8	486.6	677.9	748.8	845.7	668.5	340.2
87.5°	184.2	203.1	342.5	307.1	238.6	191.3	250.4	264.6	292.9	262.2	141.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459202  
 CATALOG NUMBER: GALN-SA6D-735-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7	5685.7
2.5°	5695.2	5702.2	5685.7	5673.9	5669.2	5662.1	5655.0	5657.4	5666.8	5676.3	5673.9
5°	5723.5	5725.9	5697.5	5683.4	5673.9	5664.5	5664.5	5671.5	5690.4	5704.6	5704.6
7.5°	5794.4	5794.4	5754.2	5728.2	5714.1	5697.5	5692.8	5695.2	5709.3	5728.2	5730.6
10°	5905.4	5895.9	5844.0	5803.8	5777.8	5737.7	5702.2	5683.4	5690.4	5702.2	5702.2
12.5°	6040.0	6014.1	5947.9	5893.6	5829.8	5754.2	5681.0	5643.2	5640.8	5652.6	5647.9
15°	6184.1	6155.8	6063.7	5964.4	5853.4	5742.4	5655.0	5600.7	5558.2	5546.3	5572.3
17.5°	6351.8	6292.8	6165.2	6028.2	5862.9	5718.8	5581.8	5470.8	5395.2	5373.9	5381.0
20°	6555.0	6477.0	6304.6	6089.6	5855.8	5633.7	5421.2	5272.3	5149.5	5111.7	5116.4
22.5°	6836.1	6701.4	6448.7	6120.4	5796.7	5473.1	5177.9	4984.2	4835.3	4776.3	4811.7
25°	7155.0	7008.5	6585.7	6113.3	5643.2	5215.6	4889.7	4636.9	4502.3	4414.9	4433.8
27.5°	7594.3	7334.5	6732.2	6049.5	5423.5	4901.5	4523.5	4285.0	4162.1	4117.2	4138.5
30°	8156.5	7757.3	6890.4	5877.0	5076.3	4504.6	4155.0	3999.1	3925.9	3869.2	3888.1
32.5°	8562.8	8055.0	6925.8	5586.5	4700.7	4143.2	3904.6	3788.9	3708.6	3654.3	3666.1
35°	8853.4	8307.7	6909.3	5229.8	4308.6	3845.6	3706.2	3611.7	3481.8	3363.7	3342.5
37.5°	9243.1	8624.2	6788.8	4840.1	3921.2	3644.8	3545.6	3370.8	3184.2	3025.9	3018.8
40°	9840.8	8995.1	6531.4	4381.8	3590.5	3496.0	3375.5	3148.8	2948.0	2820.4	2811.0
42.5°	10457.3	9337.6	6181.8	3899.9	3318.8	3340.1	3193.6	2969.2	2846.4	2763.7	2754.3
45°	11210.8	9708.5	5803.8	3481.8	3118.0	3193.6	3035.4	2905.5	2832.2	2777.9	2763.7
47.5°	12025.7	10088.8	5378.6	3106.2	2948.0	3059.0	2969.2	2910.2	2870.0	2832.2	2815.7
50°	12904.5	10514.0	4979.4	2803.9	2794.4	2919.6	2962.1	2940.9	2917.3	2905.5	2891.3
52.5°	13868.2	10948.6	4644.0	2591.3	2659.8	2820.4	2964.5	2981.0	2981.0	2974.0	2964.5
55°	14520.2	11251.0	4303.9	2418.8	2522.8	2740.1	2959.8	3023.6	3047.2	3037.7	3028.3
57.5°	15002.1	11416.3	3876.3	2270.0	2407.0	2662.2	2933.8	3028.3	3051.9	3063.7	3059.0
60°	15101.3	11262.8	3316.5	2114.1	2281.8	2548.8	2839.3	2957.4	2988.1	3061.4	3068.4
62.5°	14654.8	10790.3	2759.0	1960.6	2128.3	2376.3	2711.8	2877.1	2938.5	3051.9	3063.7
64°	14106.8	10261.2	2449.6	1863.7	2029.1	2279.5	2648.0	2855.8	2936.2	3087.3	3096.8
65°	13705.2	9876.2	2255.9	1802.3	1965.3	2215.7	2612.5	2862.9	2957.4	3141.7	3155.8
67.5°	12226.5	8551.0	1866.1	1658.2	1814.1	2107.0	2619.6	2922.0	2952.7	3162.9	3160.6
70°	10117.1	6807.7	1563.7	1526.0	1667.7	2019.6	2591.3	2827.5	2829.9	2969.2	2936.2
72.5°	7575.4	5031.4	1355.9	1388.9	1504.7	1811.8	2447.2	2699.9	2659.8	2678.7	2645.6
75°	5203.8	3328.3	1166.9	1242.5	1334.6	1601.5	2244.1	2451.9	2388.1	2364.5	2340.9
77.5°	2777.9	1840.1	970.8	1098.4	1159.8	1384.2	1958.2	2159.0	2092.9	2000.7	1970.0
80°	1124.4	866.9	781.9	909.4	944.9	1114.9	1629.9	1755.1	1705.5	1544.9	1492.9
82.5°	564.6	519.7	614.2	715.7	718.1	796.0	1211.8	1329.9	1218.9	1022.8	977.9
85°	295.3	304.7	422.8	503.1	444.1	429.9	727.5	805.5	739.4	642.5	578.7
87.5°	106.3	122.8	222.0	219.7	155.9	82.7	160.6	78.0	42.5	26.0	33.1
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)