

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: P533119

Luminaire Tested: **GALN-SA8C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30868 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

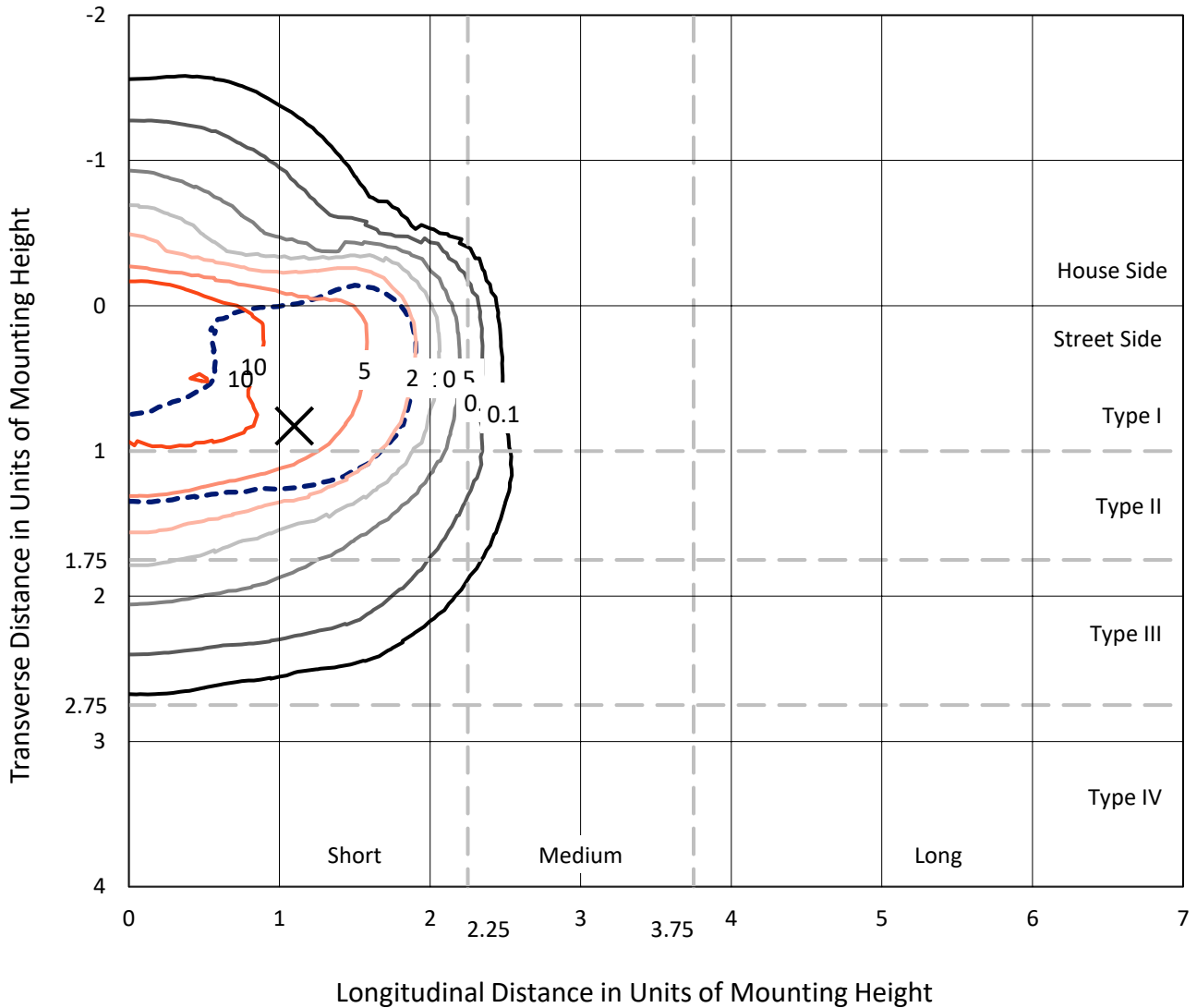
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

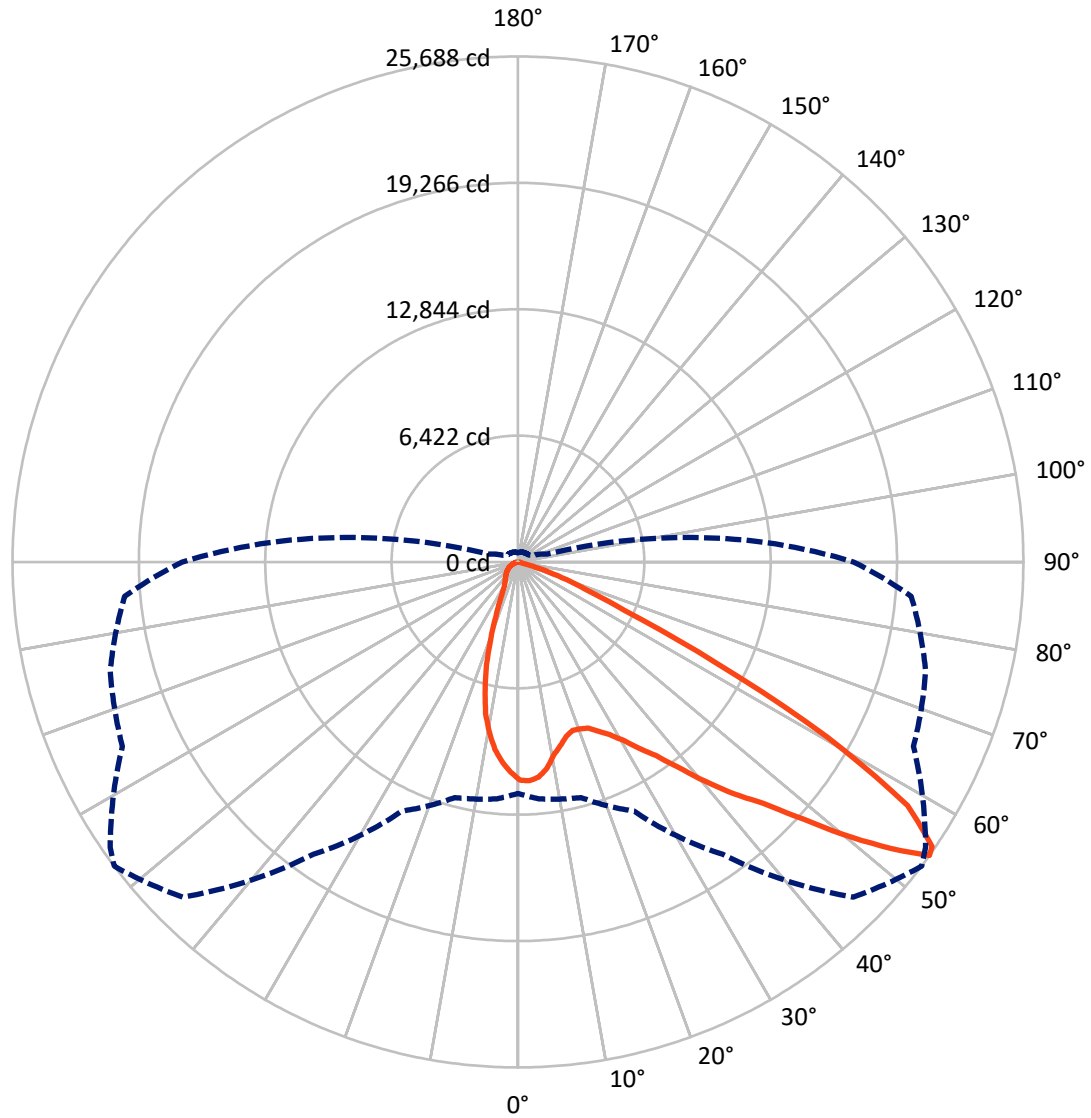
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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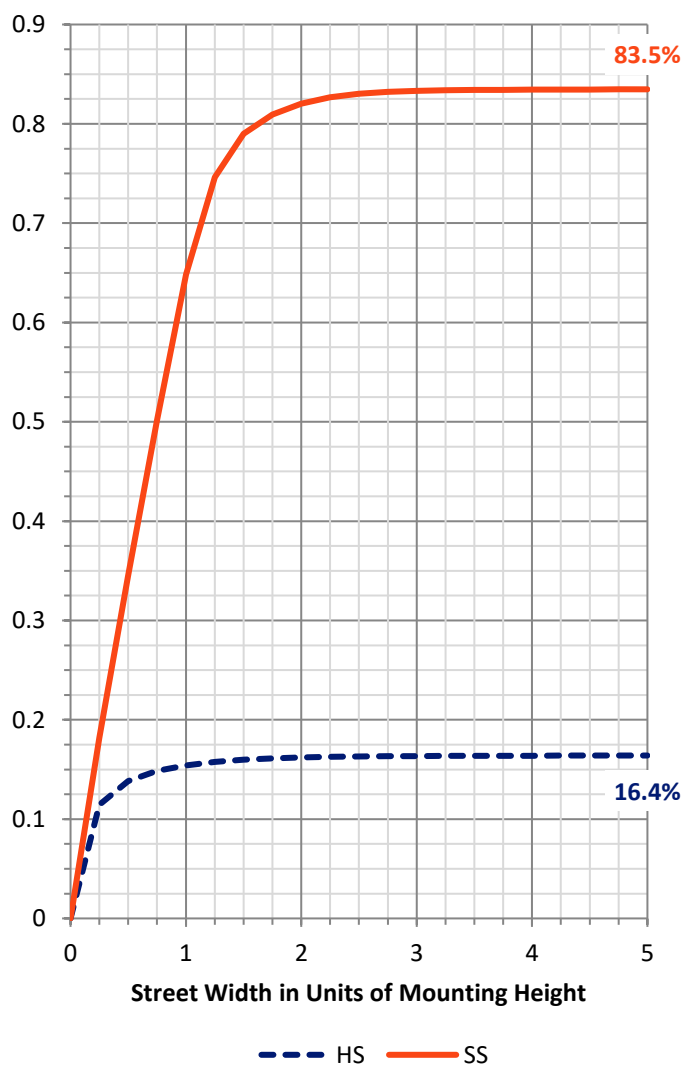
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5107.2	0.0	5107.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	25760.8	0.0	25760.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	30868.0	0.0	30868.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	951.3	3.1
10°-20°	2180.9	7.1
20°-30°	3099.6	10.0
30°-40°	4783.5	15.5
40°-50°	7500.0	24.3
50°-60°	8712.4	28.2
60°-70°	3292.1	10.7
70°-80°	313.1	1.0
80°-90°	35.2	0.1
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°	30868.0	100.0
0°-180°	30868.0	100.0

**Coefficient of Utilization**



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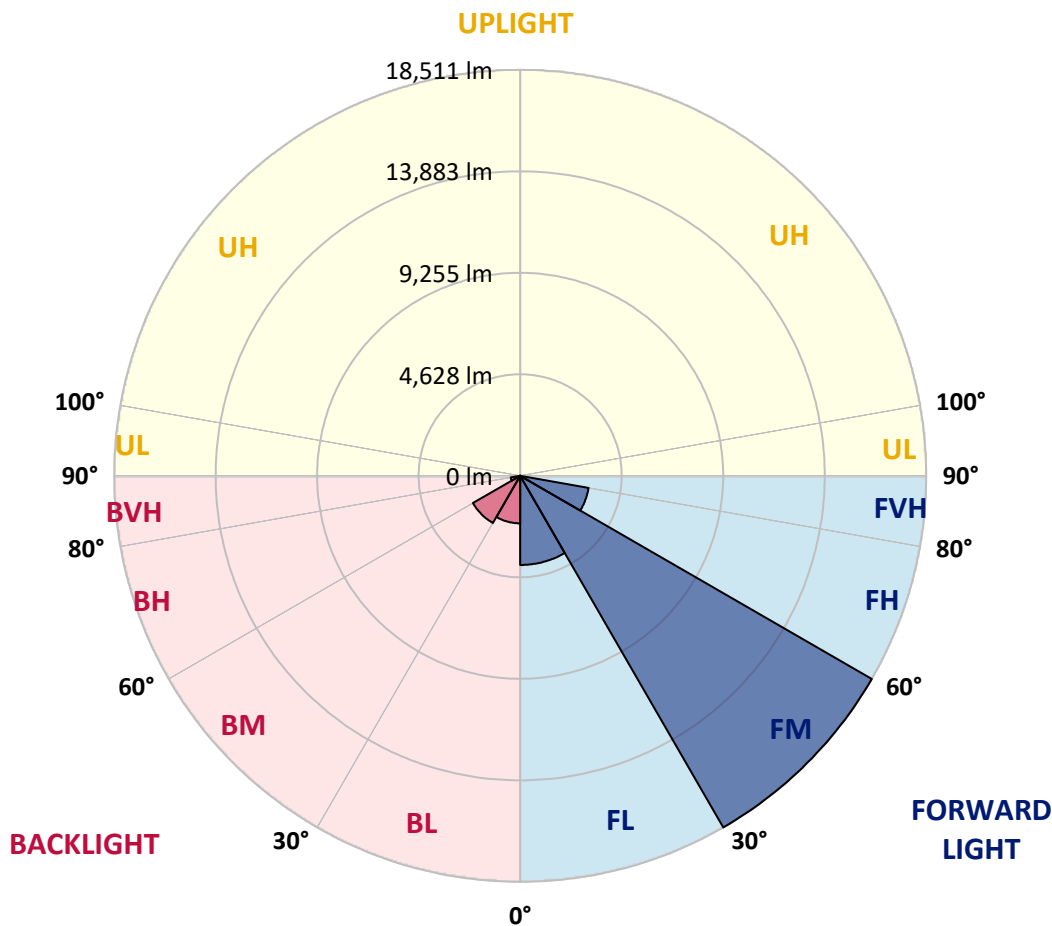
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4064.5	13.2			
FM (30°-60°)	18510.6	60.0			
FH (60°-80°)	3167.5	10.3			G2/5000
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	2167.3	7.0	B3/2500		
BM (30°-60°)	2485.3	8.1	B2/2500		
BH (60°-80°)	437.6	1.4	B1/500		G1/500
BVH (80°-90°)	17.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3
2.5°	11029.8	10932.0	11029.8	11041.3	11110.3	11173.5	11133.3	11225.3	11173.5	11116.0	11098.8
5°	10138.4	10270.7	10276.4	10483.4	10437.4	10817.0	10983.8	10937.7	11219.5	11202.3	11162.0
7.5°	9339.1	9287.3	9356.3	9597.8	9902.6	10339.7	10581.2	10575.5	10978.0	11265.5	11236.8
10°	8597.2	8591.5	8735.2	8925.0	9183.8	9643.9	9977.4	10144.2	10771.0	11208.0	11271.3
12.5°	8096.9	8073.9	8229.2	8384.5	8792.8	9149.3	9574.8	9655.4	10374.2	11006.8	11110.3
15°	7769.1	7820.9	7832.4	8131.4	8390.2	8861.8	9195.3	9362.1	10190.2	10845.7	11242.5
17.5°	7711.6	7780.6	7786.4	8033.7	8309.7	8706.5	8999.8	9224.1	10034.9	10926.2	11248.3
20°	7826.6	7786.4	7820.9	7976.2	8246.4	8626.0	9051.5	9126.3	9983.1	10966.5	11311.5
22.5°	8154.4	8142.9	8056.7	8183.2	8373.0	8769.8	9172.3	9287.3	10132.7	11173.5	11363.3
25°	8516.7	8580.0	8499.5	8482.2	8614.5	9005.5	9540.3	9689.9	10633.0	11547.3	11524.3
27.5°	9195.3	9132.0	9132.0	9051.5	9017.0	9206.8	9937.1	10184.4	11190.8	12030.4	11708.3
30°	9845.1	9914.1	9862.4	9891.1	9661.1	9643.9	10500.7	10805.5	12179.9	12766.5	12099.4
32.5°	10874.5	10782.5	10868.7	10794.0	10489.2	10178.7	11265.5	11581.8	13376.0	13611.8	12685.9
35°	11731.3	11691.1	12059.1	12047.6	11553.1	11248.3	12076.4	12547.9	14209.9	14623.9	13376.0
37.5°	12950.5	12875.7	13295.5	13496.8	13054.0	12599.7	13238.0	13784.3	14986.2	15434.8	14083.4
40°	14204.1	14393.9	14957.5	15291.0	14819.4	14215.6	14658.4	14825.2	15503.8	15963.8	14566.4
42.5°	15791.3	16067.3	16642.4	16929.9	16889.7	16234.1	16101.8	16096.1	15877.6	15814.3	14923.0
45°	17315.2	17211.7	18097.3	18724.1	19230.2	19040.4	17493.5	17321.0	16469.9	16038.6	15015.0
47.5°	17982.3	17947.8	18551.6	19667.2	21392.4	21628.2	19517.7	18850.7	17470.5	16981.7	15515.3
50°	17119.7	17298.0	17896.0	19132.4	21777.7	23577.7	22002.0	21104.9	18637.9	18131.8	16699.9
52.5°	14301.9	14422.6	14992.0	16561.9	20466.6	24727.8	24382.8	23865.2	20782.9	19943.3	18764.4
54°	11760.1	12082.1	12392.7	13968.3	18131.8	24089.5	25688.2	25291.4	22180.3	21449.9	20064.0
55°	10241.9	10431.7	10656.0	12225.9	16515.9	23008.4	25538.7	25573.2	23117.6	21921.5	20938.1
57.5°	7481.6	7613.9	7383.8	8079.7	11340.3	18683.9	23359.2	24290.8	24382.8	22628.8	21473.0
60°	5716.2	5773.7	5514.9	5624.1	7050.3	12824.0	18068.6	19189.9	21996.3	19776.5	18189.3
62.5°	4433.8	4445.3	4439.5	4629.3	4859.3	7544.9	11300.0	12294.9	15164.5	14043.1	12352.4
65°	3266.4	3214.6	3306.6	3881.7	4146.2	4744.3	5951.9	6676.5	8240.7	6958.3	4974.3
67.5°	2116.2	2133.5	2225.5	2886.8	3553.9	3640.2	3663.2	3605.7	3611.4	1989.7	1247.9
70°	1270.9	1299.6	1270.9	1633.2	2541.8	2610.8	2386.5	2329.0	1817.2	471.6	465.8
72.5°	753.3	713.1	638.3	701.6	1058.1	1265.1	1138.6	1132.9	713.1	276.0	276.0
75°	316.3	287.5	235.8	212.8	281.8	270.3	270.3	241.5	189.8	184.0	172.5
77.5°	63.3	63.3	46.0	51.8	69.0	80.5	97.8	97.8	115.0	115.0	109.3
80°	0.0	5.8	17.3	34.5	51.8	74.8	86.3	86.3	97.8	97.8	80.5
82.5°	0.0	5.8	17.3	34.5	46.0	69.0	86.3	86.3	97.8	103.5	86.3
85°	0.0	5.8	17.3	28.8	46.0	57.5	57.5	51.8	40.3	34.5	23.0
87.5°	0.0	0.0	5.8	11.5	5.8	11.5	11.5	11.5	11.5	11.5	11.5
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°	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3	11087.3
2.5°	11139.0	11133.3	10995.3	10771.0	10719.2	10529.5	10506.4	10391.4	10454.7	10241.9	10218.9
5°	11047.0	10978.0	10811.2	10667.5	10247.7	9948.6	9712.9	9425.3	9258.6	9287.3	9178.0
7.5°	11179.3	11001.0	10707.7	10207.4	9695.6	9172.3	8890.5	8303.9	8091.2	7774.9	7728.9
10°	11041.3	10909.0	10454.7	9626.6	8919.3	8165.9	7504.6	6854.8	6360.2	6147.5	6101.4
12.5°	11029.8	10799.7	10040.6	9120.5	8096.9	7015.8	6055.4	5244.6	4755.8	4479.8	4416.5
15°	10851.5	10575.5	9574.8	8338.5	6923.8	5578.1	4531.5	3749.4	3375.6	3214.6	3260.6
17.5°	10868.7	10454.7	9109.0	7510.4	5767.9	4094.5	3093.9	2691.3	2593.5	2633.8	2633.8
20°	10851.5	10184.4	8545.5	6555.7	4416.5	2840.8	2271.5	2127.7	2191.0	2317.5	2288.8
22.5°	10759.5	10057.9	8027.9	5549.4	3249.1	2104.7	1823.0	1828.7	1926.5	2081.7	2116.2
25°	10828.5	9776.1	7372.3	4531.5	2369.3	1679.2	1581.4	1621.7	1725.2	1840.2	1863.2
27.5°	10776.7	9574.8	6688.0	3519.4	1730.9	1443.4	1437.7	1483.7	1529.7	1615.9	1615.9
30°	10834.2	9390.8	6015.2	2616.5	1426.2	1322.7	1299.6	1334.2	1380.2	1397.4	1391.7
32.5°	11047.0	9252.8	5238.8	1955.2	1259.4	1207.6	1207.6	1207.6	1201.9	1224.9	1230.6
35°	11512.8	9275.8	4554.5	1512.4	1150.1	1109.9	1092.6	1069.6	1058.1	1069.6	1075.4
37.5°	12018.9	9264.3	3847.2	1288.1	1069.6	1035.1	994.9	960.4	954.6	966.1	948.9
40°	12243.1	9373.6	3191.6	1155.9	994.9	954.6	891.4	862.6	868.3	879.9	868.3
42.5°	12547.9	9408.1	2766.1	1052.4	925.9	862.6	822.3	787.8	782.1	799.3	793.6
45°	12542.2	9212.6	2317.5	994.9	862.6	793.6	741.8	713.1	713.1	724.6	730.3
47.5°	12910.2	9183.8	1989.7	943.1	816.6	747.6	684.3	661.3	655.6	655.6	644.1
50°	13767.1	9586.3	1736.7	885.6	759.1	695.8	644.1	615.3	592.3	580.8	575.1
52.5°	15440.5	10840.0	1541.2	816.6	695.8	644.1	598.1	575.1	546.3	517.6	511.8
54°	17062.2	12133.9	1529.7	759.1	644.1	609.6	569.3	557.8	523.3	483.1	471.6
55°	17792.5	12887.2	1569.9	713.1	609.6	586.6	552.1	540.6	506.1	460.1	454.3
57.5°	18396.3	13180.5	1546.9	592.3	552.1	546.3	517.6	500.3	460.1	396.8	385.3
60°	14807.9	9965.9	1109.9	523.3	506.1	494.6	471.6	460.1	408.3	339.3	333.5
62.5°	9356.3	5733.4	707.3	460.1	442.8	425.5	396.8	385.3	339.3	270.3	253.0
65°	3985.2	2375.0	477.3	408.3	379.5	350.8	327.8	310.5	270.3	201.3	195.5
67.5°	1035.1	845.3	396.8	356.5	316.3	276.0	258.8	230.0	184.0	138.0	132.3
70°	465.8	425.5	333.5	299.0	253.0	212.8	189.8	161.0	120.8	92.0	86.3
72.5°	276.0	270.3	253.0	224.3	189.8	161.0	138.0	109.3	80.5	51.8	51.8
75°	172.5	166.8	172.5	155.3	132.3	120.8	103.5	74.8	46.0	23.0	23.0
77.5°	103.5	103.5	103.5	97.8	92.0	92.0	74.8	46.0	23.0	5.8	5.8
80°	80.5	80.5	86.3	80.5	80.5	80.5	63.3	34.5	11.5	0.0	0.0
82.5°	80.5	86.3	97.8	92.0	80.5	69.0	57.5	34.5	11.5	0.0	0.0
85°	23.0	17.3	28.8	40.3	57.5	51.8	40.3	28.8	11.5	0.0	0.0
87.5°	11.5	11.5	11.5	11.5	5.8	5.8	5.8	5.8	5.8	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)