

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: P533609

Luminaire Tested: **GALN-SA9A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30927 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

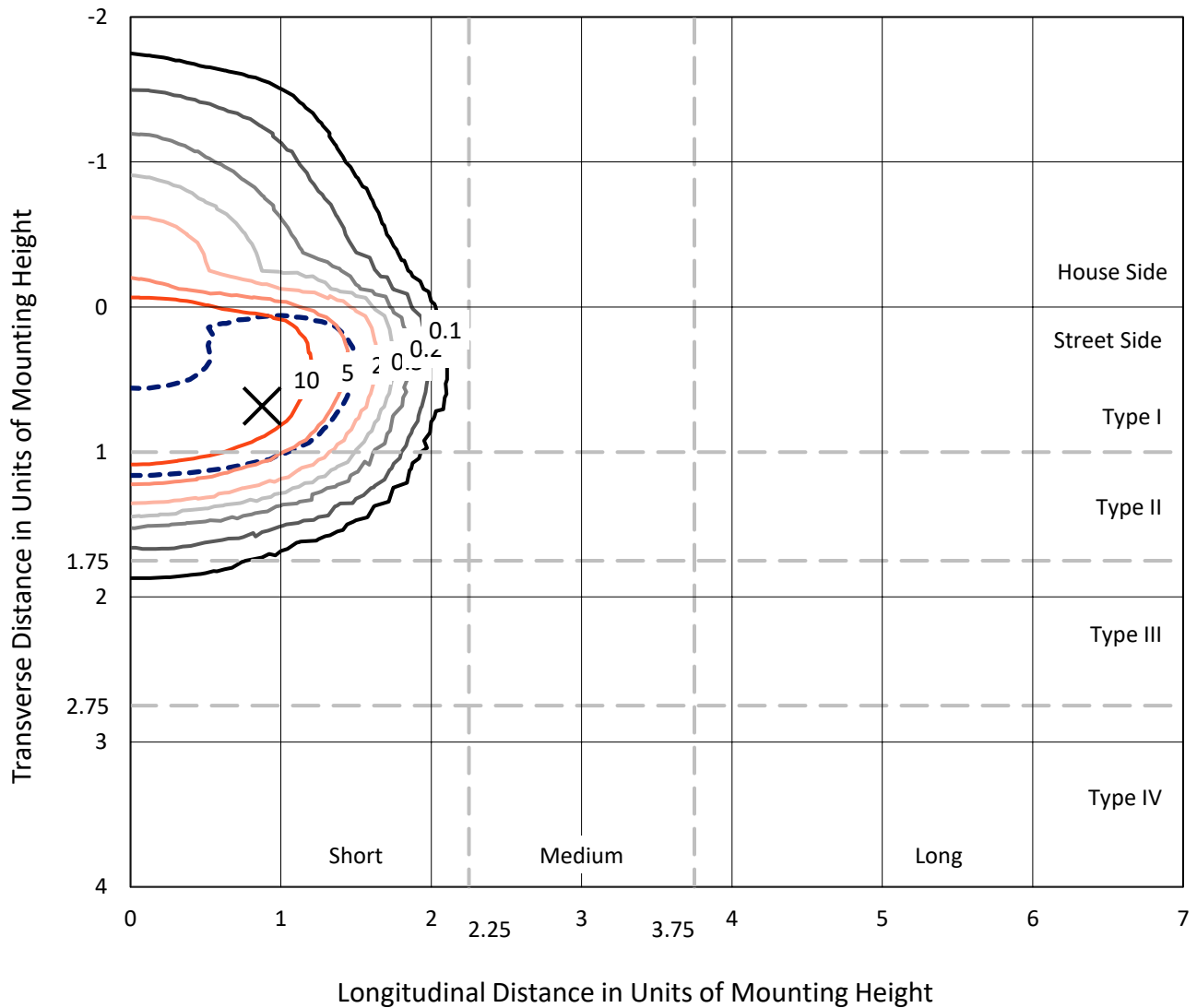
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

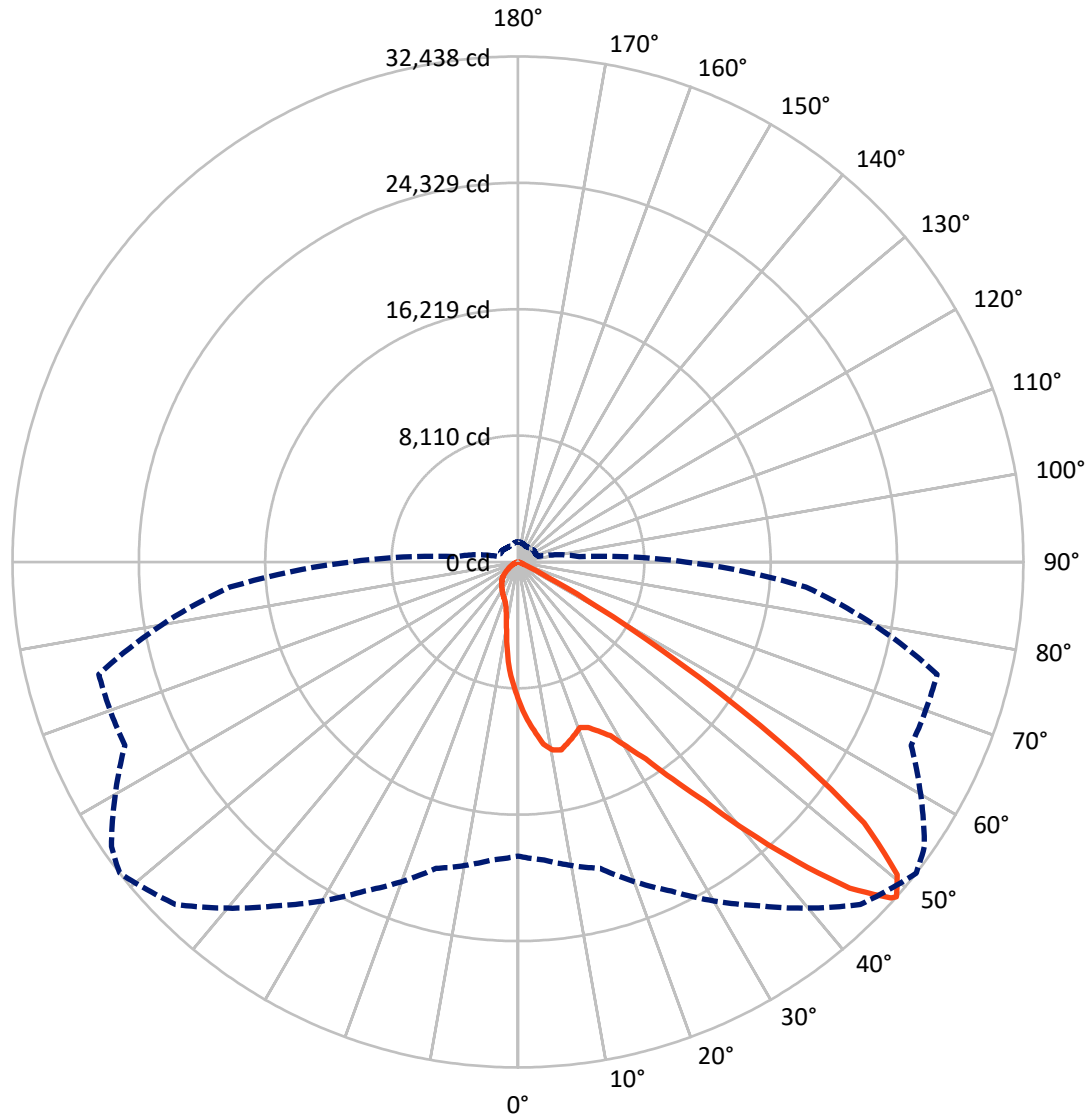
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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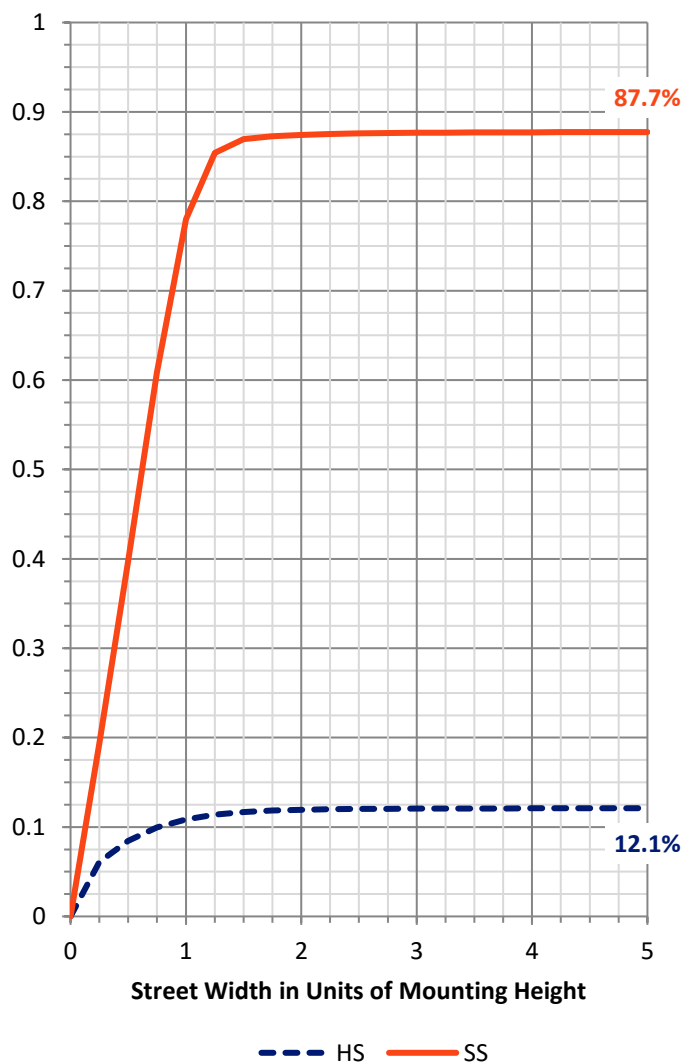
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3765.6	0.0	3765.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	27161.4	0.0	27161.4
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	30927.0	0.0	30927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	817.5	2.6
10°-20°	2136.3	6.9
20°-30°	3647.6	11.8
30°-40°	6717.0	21.7
40°-50°	10431.5	33.7
50°-60°	6278.0	20.3
60°-70°	726.1	2.3
70°-80°	140.5	0.5
80°-90°	32.5	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°	30927.0	100.0
0°-180°	30927.0	100.0

**Coefficient of Utilization**

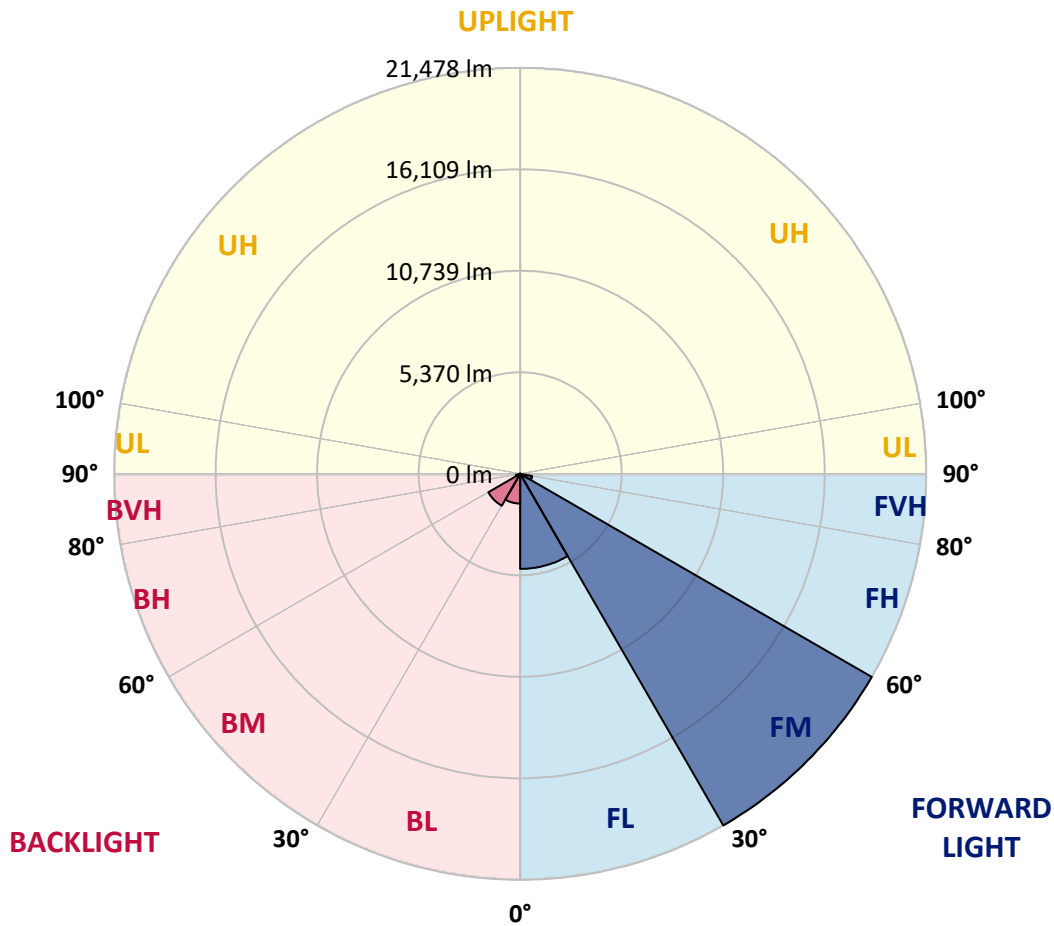


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5028.3	16.3			
FM (30°-60°)	21478.2	69.4			
FH (60°-80°)	639.4	2.1			G0/660
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	1573.0	5.1	B3/2500		
BM (30°-60°)	1948.3	6.3	B2/2500		
BH (60°-80°)	227.3	0.7	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2
2.5°	10824.7	10576.8	10599.3	10437.0	10342.3	10189.1	9981.7	9941.1	9715.7	9409.1	9098.0
5°	11798.6	11740.0	11816.6	11582.2	11591.2	11338.7	10851.8	10860.8	10342.3	9841.9	9359.5
7.5°	11861.7	11726.4	11803.1	12010.5	12132.2	12087.1	11812.1	11573.1	11081.7	10346.9	9643.5
10°	10621.9	10878.8	10960.0	11302.6	11789.5	12303.5	12272.0	12285.5	11875.2	10914.9	9887.0
12.5°	9878.0	9706.7	9981.7	10189.1	10923.9	11920.3	12375.6	12474.8	12506.4	11464.9	10130.4
15°	9539.8	9539.8	9584.9	9643.5	10175.5	11095.3	12024.0	12312.5	12993.3	12186.3	10513.7
17.5°	9751.7	9742.7	9805.8	9684.1	9882.5	10590.3	11699.4	12028.5	13538.8	12894.1	10815.7
20°	10396.4	10428.0	10387.4	10035.8	10049.3	10581.3	11338.7	11857.2	13908.5	13507.3	11217.0
22.5°	11293.6	11311.7	11081.7	10698.5	10585.8	10847.3	11546.1	11942.8	14206.1	14242.1	11338.7
25°	12330.6	12258.4	12213.3	11672.3	11329.7	11555.1	12015.0	12244.9	14390.9	14873.3	11685.9
27.5°	13768.8	13624.5	13349.5	12867.1	12614.6	12294.5	12623.6	13002.3	14918.4	15757.0	12064.6
30°	15892.2	15766.0	15229.5	14607.3	13944.6	13629.0	13732.7	13940.1	15869.7	16780.4	12565.0
32.5°	19088.7	18822.7	18047.3	16861.5	15959.8	15089.7	15062.7	15283.6	16721.8	18196.0	13160.1
35°	22609.8	22528.6	21388.0	20166.2	18421.5	17077.9	17100.5	17217.7	18353.8	20053.5	13940.1
37.5°	24949.7	25396.0	24670.1	23358.2	21892.9	19972.4	19485.4	19526.0	20594.5	22253.6	15346.7
40°	26757.5	26378.8	26464.5	26157.9	25157.1	23849.6	22772.1	22560.2	23186.9	24688.2	16744.3
42.5°	25968.6	25986.6	26514.1	27239.9	27487.9	27393.2	26293.2	25891.9	25405.0	26680.9	18074.3
45°	23741.4	24205.8	24891.1	26811.6	28497.8	30080.3	29863.9	29196.6	26937.9	28258.9	18840.7
47.5°	20188.8	20170.7	21293.3	23791.0	27537.5	31243.4	32226.3	31757.4	28024.4	28083.0	18682.9
48°	18876.8	19201.4	20360.1	23299.6	26928.9	31072.1	32438.2	31847.6	27839.6	27848.6	18547.7
50°	13953.6	13895.0	15337.7	18944.4	24052.5	29196.6	31545.5	32005.4	27835.1	26662.9	17600.9
52.5°	7371.3	7623.8	8674.2	11911.3	17005.8	23894.7	27826.0	28542.9	26852.2	24724.2	16239.4
55°	3133.4	2831.3	3638.3	5378.6	9566.9	15964.4	20414.2	22010.2	22704.5	21879.4	14206.1
57.5°	1118.1	1221.8	1406.6	2024.3	4021.5	8737.3	12172.8	13412.6	15729.9	16054.5	9679.6
60°	716.8	730.4	789.0	928.7	1510.3	3367.8	5775.3	6762.6	7813.1	8065.6	4517.4
62.5°	554.5	559.0	586.1	608.6	716.8	1307.4	2168.6	2569.8	2669.0	2294.8	1185.7
65°	464.4	468.9	477.9	477.9	509.5	613.1	757.4	834.1	811.5	802.5	671.8
67.5°	356.2	365.2	383.2	383.2	401.3	374.2	419.3	446.3	504.9	613.1	572.6
70°	279.5	284.0	297.6	306.6	306.6	270.5	302.1	329.1	369.7	455.4	450.8
72.5°	216.4	225.4	234.4	234.4	220.9	184.8	216.4	238.9	266.0	315.6	306.6
75°	166.8	166.8	171.3	139.8	108.2	94.7	130.7	157.8	198.4	207.4	171.3
77.5°	45.1	49.6	45.1	40.6	45.1	67.6	85.7	99.2	126.2	126.2	112.7
80°	0.0	4.5	13.5	27.1	45.1	63.1	76.6	85.7	99.2	108.2	103.7
82.5°	0.0	4.5	13.5	27.1	40.6	49.6	67.6	72.1	81.2	94.7	94.7
85°	0.0	4.5	9.0	18.0	27.1	31.6	31.6	27.1	27.1	22.5	18.0
87.5°	0.0	0.0	4.5	9.0	9.0	13.5	13.5	13.5	13.5	13.5	13.5
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°	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2	8931.2
2.5°	8976.3	8836.5	8624.6	8291.0	7970.9	7763.5	7565.1	7344.2	7222.5	7213.5	7145.9
5°	9084.5	8768.9	8264.0	7691.4	7078.2	6550.8	6018.8	5671.6	5360.5	5189.2	5157.6
7.5°	9143.1	8732.8	7916.8	6956.5	5910.6	5049.4	4454.3	4017.0	3845.7	3719.5	3714.9
10°	9264.8	8669.7	7398.3	5982.7	4688.8	3818.6	3408.4	3210.0	3115.3	3079.3	3025.2
12.5°	9355.0	8552.5	6866.3	4981.8	3705.9	3164.9	2984.6	2939.5	2944.0	2962.0	2939.5
15°	9481.2	8448.8	6149.5	4089.1	3110.8	2849.3	2849.3	2858.3	2921.5	2930.5	2926.0
17.5°	9472.2	8245.9	5410.1	3367.8	2750.1	2714.1	2727.6	2813.3	2853.8	2867.4	2835.8
20°	9580.4	8056.6	4648.2	2876.4	2547.3	2601.4	2691.5	2714.1	2763.7	2772.7	2736.6
22.5°	9548.9	7583.2	3940.4	2488.7	2394.0	2497.7	2587.8	2614.9	2601.4	2574.3	2569.8
25°	9490.2	7177.4	3291.2	2231.7	2281.3	2394.0	2479.6	2430.0	2403.0	2407.5	2412.0
27.5°	9386.6	6663.5	2754.7	2051.3	2128.0	2294.8	2290.3	2272.2	2299.3	2276.8	2299.3
30°	9368.5	6149.5	2312.8	1889.0	2015.3	2137.0	2146.0	2177.6	2209.1	2168.6	2209.1
32.5°	9395.6	5585.9	1997.2	1789.8	1947.6	1952.2	2051.3	2082.9	2060.4	1970.2	1979.2
35°	9603.0	5153.1	1767.3	1735.7	1839.4	1843.9	1938.6	1898.0	1798.9	1744.8	1776.3
37.5°	10040.3	4792.5	1659.1	1686.2	1695.2	1753.8	1758.3	1677.1	1686.2	1681.6	1699.7
40°	10599.3	4517.4	1582.5	1641.1	1632.1	1672.6	1510.3	1555.4	1596.0	1609.5	1618.5
42.5°	10982.5	4319.1	1532.9	1568.9	1550.9	1478.8	1388.6	1433.7	1465.2	1514.8	1523.9
45°	11153.9	4161.3	1474.3	1442.7	1442.7	1312.0	1275.9	1284.9	1357.0	1411.1	1402.1
47.5°	10874.3	4008.0	1370.6	1275.9	1307.4	1199.2	1158.7	1158.7	1235.3	1302.9	1289.4
48°	10766.1	3944.9	1375.1	1239.8	1262.4	1181.2	1140.6	1131.6	1217.3	1280.4	1280.4
50°	10229.6	3710.4	1257.9	1140.6	1095.5	1086.5	1059.5	1068.5	1122.6	1181.2	1181.2
52.5°	9183.7	3205.5	1064.0	978.3	897.2	951.3	964.8	946.8	973.8	1027.9	1023.4
55°	7664.3	2461.6	852.1	811.5	748.4	807.0	834.1	811.5	784.5	825.0	825.0
57.5°	4909.7	1325.5	680.8	689.8	626.7	685.3	707.8	653.7	604.1	635.7	631.2
60°	2213.6	793.5	559.0	545.5	504.9	572.6	608.6	545.5	477.9	500.4	523.0
62.5°	829.6	563.6	423.8	414.8	405.8	468.9	486.9	437.3	369.7	383.2	387.7
65°	608.6	495.9	338.1	306.6	324.6	369.7	360.7	311.1	266.0	266.0	275.0
67.5°	518.5	432.8	275.0	238.9	238.9	243.5	225.4	198.4	184.8	193.9	202.9
70°	405.8	342.6	216.4	184.8	166.8	148.8	130.7	126.2	112.7	126.2	121.7
72.5°	261.5	229.9	166.8	139.8	126.2	103.7	85.7	81.2	67.6	63.1	63.1
75°	139.8	139.8	130.7	112.7	99.2	81.2	67.6	54.1	36.1	27.1	27.1
77.5°	99.2	108.2	117.2	108.2	90.2	67.6	54.1	36.1	18.0	9.0	9.0
80°	94.7	108.2	117.2	103.7	90.2	67.6	49.6	27.1	13.5	4.5	4.5
82.5°	85.7	99.2	108.2	94.7	81.2	58.6	45.1	27.1	13.5	4.5	4.5
85°	18.0	22.5	27.1	27.1	31.6	40.6	31.6	22.5	9.0	4.5	4.5
87.5°	13.5	13.5	13.5	13.5	13.5	13.5	9.0	9.0	4.5	4.5	4.5
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)