

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: P532907

Luminaire Tested: **GALN-SA8B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532907  
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-SA8B-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA 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: 34276 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

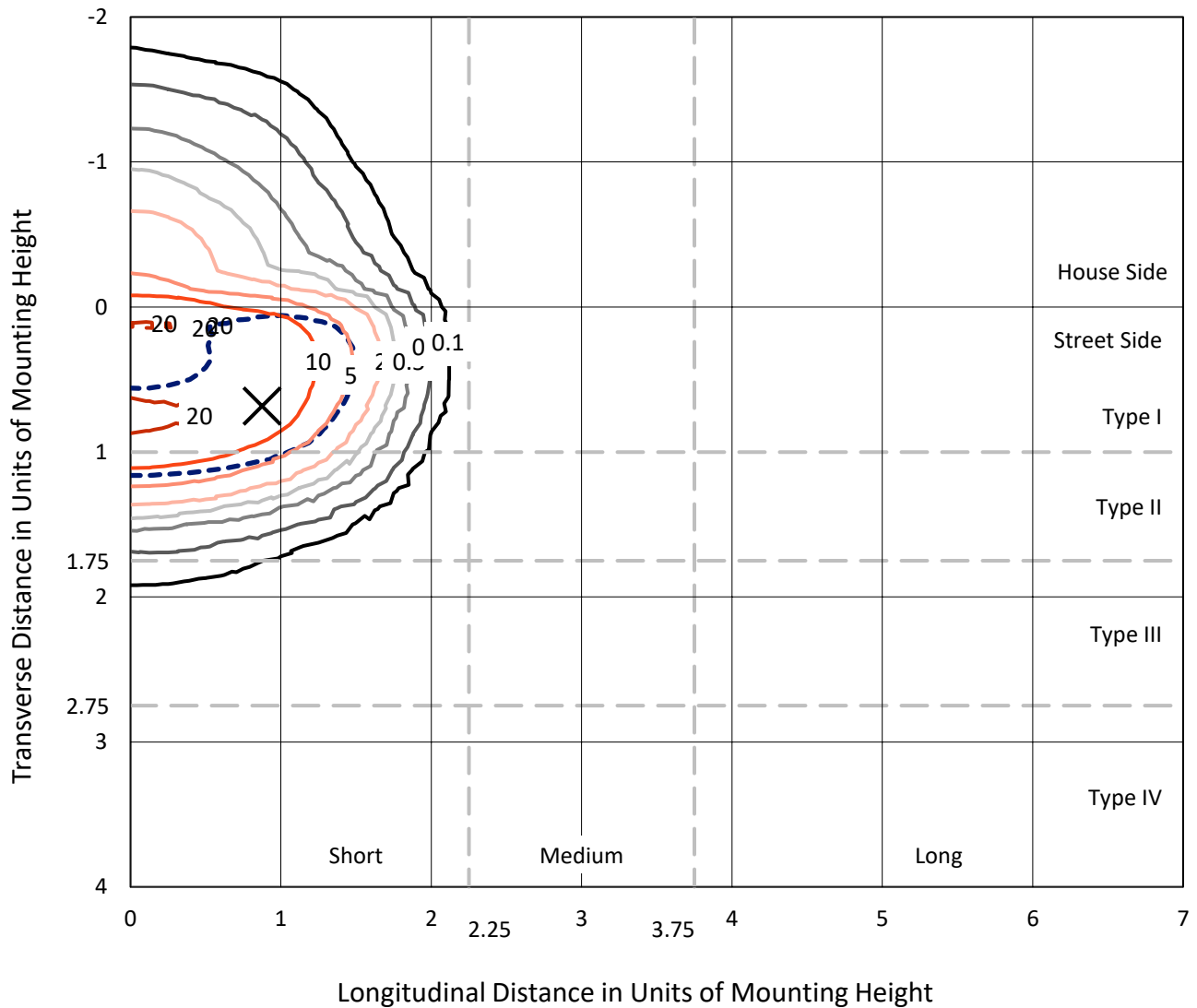
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

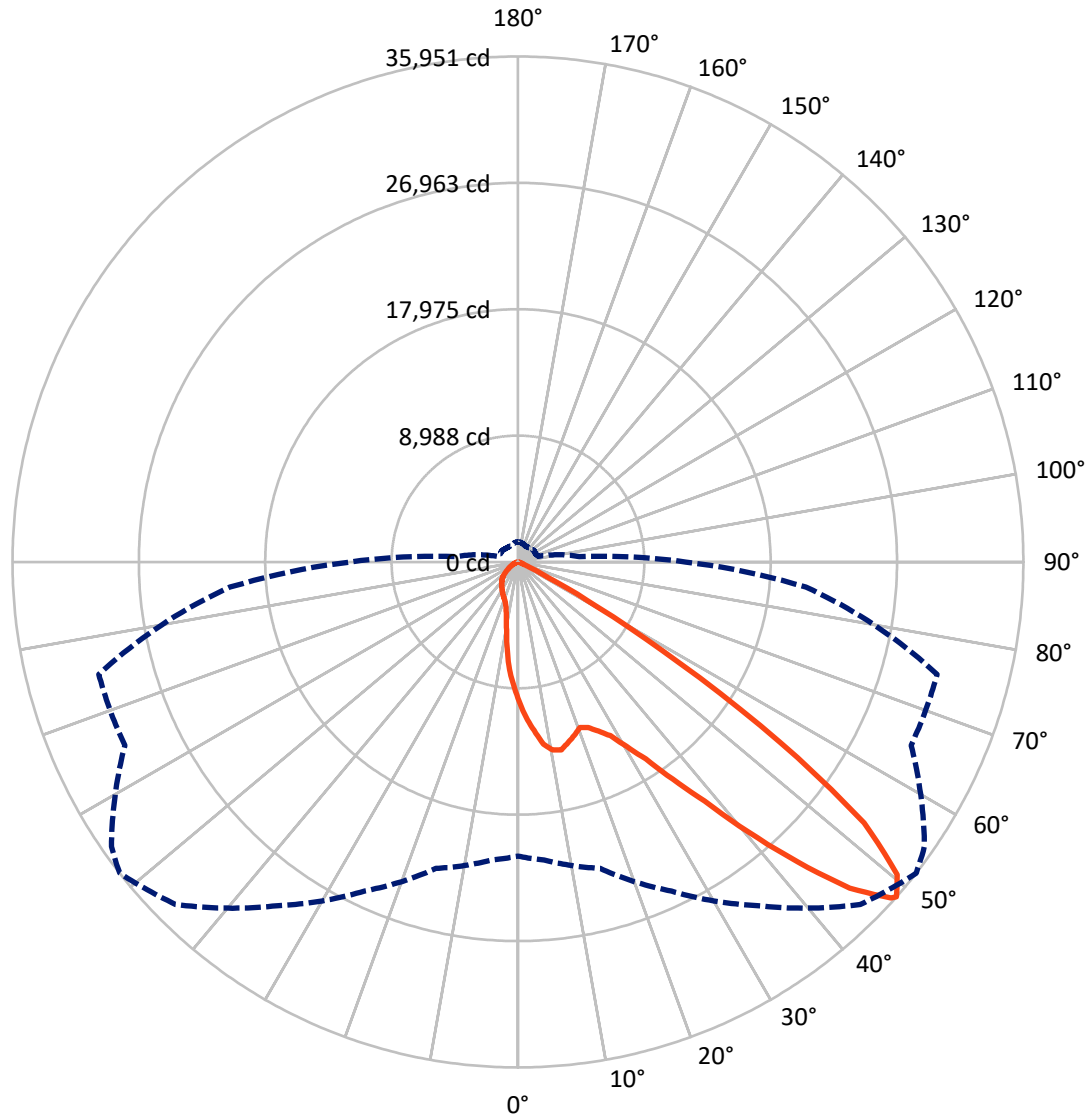
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 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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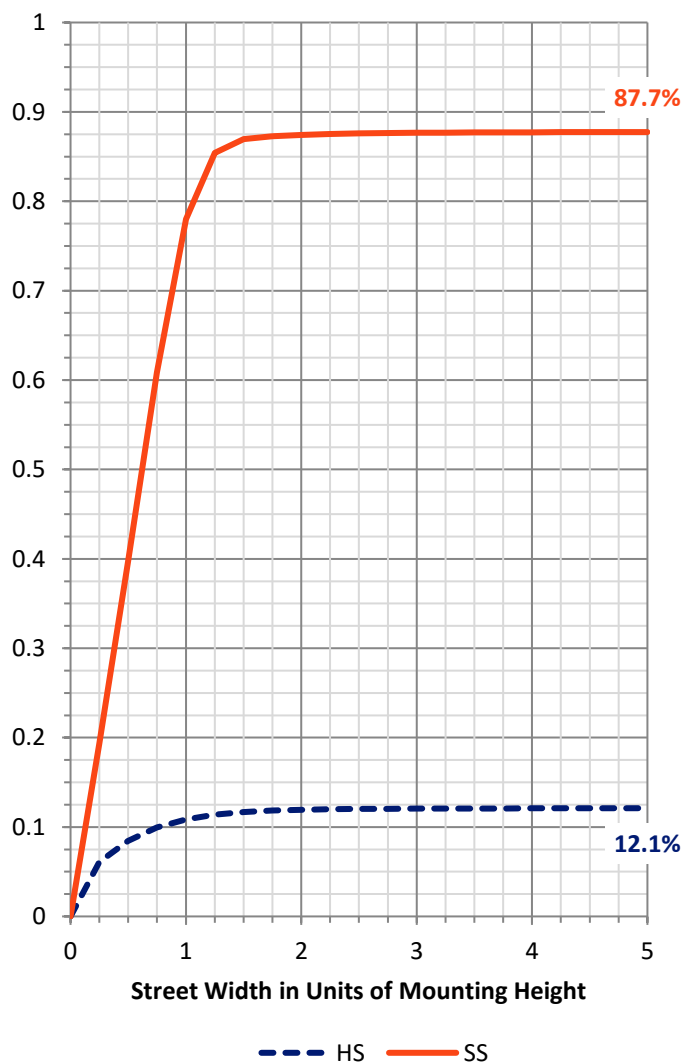
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4173.4	0.0	4173.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	30102.6	0.0	30102.6
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	34276.0	0.0	34276.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	906.0	2.6
10°-20°	2367.7	6.9
20°-30°	4042.6	11.8
30°-40°	7444.4	21.7
40°-50°	11561.1	33.7
50°-60°	6957.8	20.3
60°-70°	804.7	2.3
70°-80°	155.8	0.5
80°-90°	36.0	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°	34276.0	100.0
0°-180°	34276.0	100.0

**Coefficient of Utilization**



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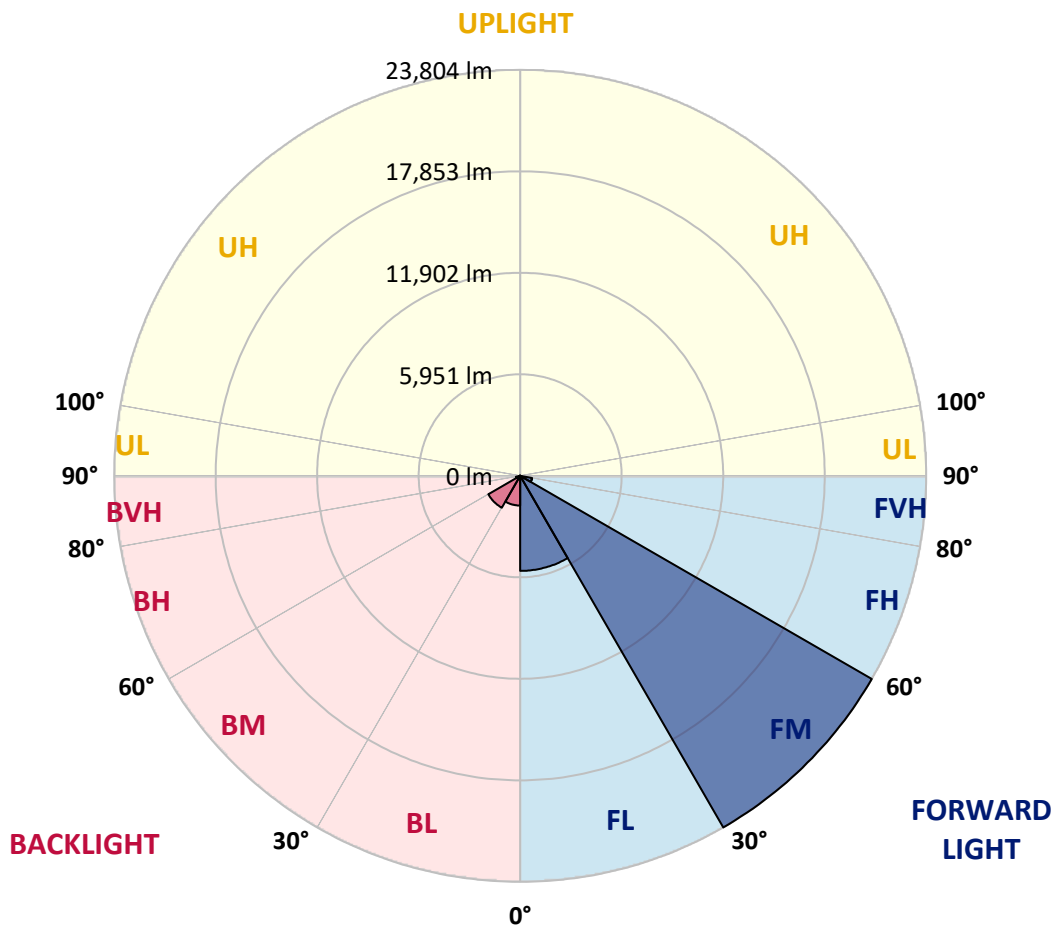
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5572.8	16.3			
FM (30°-60°)	23804.0	69.4			
FH (60°-80°)	708.6	2.1			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1743.4	5.1	B3/2500		
BM (30°-60°)	2159.3	6.3	B2/2500		
BH (60°-80°)	251.9	0.7	B1/500		G1/500
BVH (80°-90°)	18.9	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°	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3
2.5°	11996.9	11722.1	11747.1	11567.2	11462.3	11292.4	11062.6	11017.6	10767.8	10428.0	10083.2
5°	13076.2	13011.2	13096.2	12836.4	12846.4	12566.5	12026.9	12036.9	11462.3	10907.7	10373.0
7.5°	13146.2	12996.3	13081.2	13311.0	13446.0	13396.0	13091.2	12826.4	12281.7	11467.3	10687.8
10°	11772.1	12056.9	12146.8	12526.6	13066.2	13635.8	13600.8	13615.8	13161.1	12096.9	10957.6
12.5°	10947.6	10757.8	11062.6	11292.4	12106.9	13211.1	13715.8	13825.7	13860.7	12706.4	11227.4
15°	10572.9	10572.9	10622.9	10687.8	11277.4	12296.7	13326.0	13645.8	14400.3	13505.9	11652.2
17.5°	10807.7	10797.7	10867.7	10732.8	10952.6	11737.1	12966.3	13331.0	15004.9	14290.4	11986.9
20°	11522.2	11557.2	11512.3	11122.5	11137.5	11727.1	12566.5	13141.2	15414.6	14969.9	12431.6
22.5°	12516.6	12536.6	12281.7	11857.0	11732.1	12021.9	12796.4	13236.1	15744.4	15784.4	12566.5
25°	13665.8	13585.9	13535.9	12936.3	12556.6	12806.4	13316.0	13570.9	15949.3	16483.9	12951.3
27.5°	15259.7	15099.8	14795.0	14260.4	13980.6	13625.8	13990.6	14410.3	16533.9	17463.2	13371.0
30°	17613.1	17473.2	16878.6	16189.1	15454.6	15104.8	15219.8	15449.6	17588.2	18597.5	13925.6
32.5°	21155.8	20861.0	20001.5	18687.4	17688.1	16723.7	16693.8	16938.6	18532.5	20166.4	14585.2
35°	25058.1	24968.2	23704.0	22350.0	20416.3	18927.3	18952.2	19082.2	20341.3	22225.0	15449.6
37.5°	27651.4	28146.1	27341.6	25887.6	24263.7	22135.1	21595.5	21640.4	22824.6	24663.4	17008.6
40°	29655.0	29235.3	29330.3	28990.5	27881.2	26432.2	25238.0	25003.2	25697.7	27361.6	18557.5
42.5°	28780.6	28800.6	29385.2	30189.7	30464.5	30359.6	29140.4	28695.7	28156.1	29570.1	20031.5
45°	26312.3	26826.9	27586.4	29715.0	31583.7	33337.6	33097.7	32358.2	29854.9	31318.9	20880.9
47.5°	22374.9	22355.0	23599.1	26367.3	30519.5	34626.7	35716.0	35196.3	31059.1	31124.1	20706.1
48°	20920.9	21280.7	22564.8	25822.6	29844.9	34436.8	35950.8	35296.2	30854.2	30864.2	20556.2
50°	15464.6	15399.6	16998.6	20995.9	26657.1	32358.2	34961.5	35471.1	30849.2	29550.1	19506.9
52.5°	8169.5	8449.3	9613.5	13201.1	18847.3	26482.2	30839.2	31633.7	29760.0	27401.6	17997.9
55°	3472.7	3137.9	4032.3	5961.0	10602.9	17693.1	22624.8	24393.6	25163.1	24248.7	15744.4
57.5°	1239.2	1354.1	1559.0	2243.5	4457.0	9683.5	13490.9	14865.0	17433.3	17793.0	10727.8
60°	794.5	809.5	874.4	1029.3	1673.9	3732.5	6400.7	7495.0	8659.2	8939.0	5006.6
62.5°	614.6	619.6	649.6	674.5	794.5	1449.0	2403.4	2848.1	2958.0	2543.3	1314.1
65°	514.7	519.7	529.6	529.6	564.6	679.5	839.4	924.4	899.4	889.4	744.5
67.5°	394.7	404.7	424.7	424.7	444.7	414.7	464.7	494.7	559.6	679.5	634.6
70°	309.8	314.8	329.8	339.8	339.8	299.8	334.8	364.8	409.7	504.7	499.7
72.5°	239.8	249.8	259.8	259.8	244.8	204.9	239.8	264.8	294.8	349.8	339.8
75°	184.9	184.9	189.9	154.9	119.9	104.9	144.9	174.9	219.9	229.8	189.9
77.5°	50.0	55.0	50.0	45.0	50.0	74.9	94.9	109.9	139.9	139.9	124.9
80°	0.0	5.0	15.0	30.0	50.0	70.0	84.9	94.9	109.9	119.9	114.9
82.5°	0.0	5.0	15.0	30.0	45.0	55.0	74.9	79.9	89.9	104.9	104.9
85°	0.0	5.0	10.0	20.0	30.0	35.0	35.0	30.0	30.0	25.0	20.0
87.5°	0.0	0.0	5.0	10.0	10.0	15.0	15.0	15.0	15.0	15.0	15.0
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°	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3	9898.3
2.5°	9948.3	9793.4	9558.6	9188.8	8834.1	8604.2	8384.4	8139.5	8004.6	7994.6	7919.7
5°	10068.2	9718.5	9158.8	8524.3	7844.7	7260.1	6670.5	6285.8	5941.0	5751.1	5716.2
7.5°	10133.2	9678.5	8774.1	7709.8	6550.6	5596.2	4936.7	4452.0	4262.1	4122.2	4117.2
10°	10268.1	9608.5	8199.5	6630.5	5196.5	4232.2	3777.5	3557.6	3452.7	3412.7	3352.7
12.5°	10368.0	9478.6	7609.9	5521.3	4107.2	3507.6	3307.8	3257.8	3262.8	3282.8	3257.8
15°	10507.9	9363.7	6815.4	4532.0	3447.7	3157.9	3157.9	3167.9	3237.8	3247.8	3242.8
17.5°	10497.9	9138.9	5996.0	3732.5	3047.9	3008.0	3023.0	3117.9	3162.9	3177.9	3142.9
20°	10617.9	8929.0	5151.5	3187.9	2823.1	2883.1	2983.0	3008.0	3062.9	3072.9	3033.0
22.5°	10582.9	8404.3	4367.1	2758.1	2653.2	2768.1	2868.1	2898.0	2883.1	2853.1	2848.1
25°	10517.9	7954.6	3647.5	2473.3	2528.3	2653.2	2748.2	2693.2	2663.2	2668.2	2673.2
27.5°	10403.0	7385.0	3052.9	2273.5	2358.4	2543.3	2538.3	2518.3	2548.3	2523.3	2548.3
30°	10383.0	6815.4	2563.3	2093.6	2233.5	2368.4	2378.4	2413.4	2448.4	2403.4	2448.4
32.5°	10413.0	6190.8	2213.5	1983.7	2158.5	2163.5	2273.5	2308.4	2283.5	2183.5	2193.5
35°	10642.8	5711.2	1958.7	1923.7	2038.6	2043.6	2148.6	2103.6	1993.7	1933.7	1968.7
37.5°	11127.5	5311.4	1838.8	1868.7	1878.7	1943.7	1948.7	1858.7	1868.7	1863.7	1883.7
40°	11747.1	5006.6	1753.8	1818.8	1808.8	1853.8	1673.9	1723.8	1768.8	1783.8	1793.8
42.5°	12171.8	4786.8	1698.9	1738.8	1718.8	1638.9	1539.0	1588.9	1623.9	1678.9	1688.9
45°	12361.7	4611.9	1633.9	1598.9	1598.9	1454.0	1414.0	1424.0	1504.0	1563.9	1554.0
47.5°	12051.9	4442.0	1519.0	1414.0	1449.0	1329.1	1284.1	1284.1	1369.1	1444.0	1429.0
48°	11932.0	4372.1	1524.0	1374.1	1399.1	1309.1	1264.1	1254.2	1349.1	1419.0	1419.0
50°	11337.4	4112.2	1394.1	1264.1	1214.2	1204.2	1174.2	1184.2	1244.2	1309.1	1309.1
52.5°	10178.2	3552.6	1179.2	1084.3	994.3	1054.3	1069.3	1049.3	1079.3	1139.2	1134.2
55°	8494.3	2728.2	944.4	899.4	829.4	894.4	924.4	899.4	869.4	914.4	914.4
57.5°	5441.3	1469.0	754.5	764.5	694.5	759.5	784.5	724.5	669.5	704.5	699.5
60°	2453.3	879.4	619.6	604.6	559.6	634.6	674.5	604.6	529.6	554.6	579.6
62.5°	919.4	624.6	469.7	459.7	449.7	519.7	539.6	484.7	409.7	424.7	429.7
65°	674.5	549.6	374.7	339.8	359.8	409.7	399.7	344.8	294.8	294.8	304.8
67.5°	574.6	479.7	304.8	264.8	264.8	269.8	249.8	219.9	204.9	214.9	224.8
70°	449.7	379.7	239.8	204.9	184.9	164.9	144.9	139.9	124.9	139.9	134.9
72.5°	289.8	254.8	184.9	154.9	139.9	114.9	94.9	89.9	74.9	70.0	70.0
75°	154.9	154.9	144.9	124.9	109.9	89.9	74.9	60.0	40.0	30.0	30.0
77.5°	109.9	119.9	129.9	119.9	99.9	74.9	60.0	40.0	20.0	10.0	10.0
80°	104.9	119.9	129.9	114.9	99.9	74.9	55.0	30.0	15.0	5.0	5.0
82.5°	94.9	109.9	119.9	104.9	89.9	65.0	50.0	30.0	15.0	5.0	5.0
85°	20.0	25.0	30.0	30.0	35.0	45.0	35.0	25.0	10.0	5.0	5.0
87.5°	15.0	15.0	15.0	15.0	15.0	15.0	10.0	10.0	5.0	5.0	5.0
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)