

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: P531477

Luminaire Tested: **GALN-SA6D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531477  
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-SA6D-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA 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: 31878 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

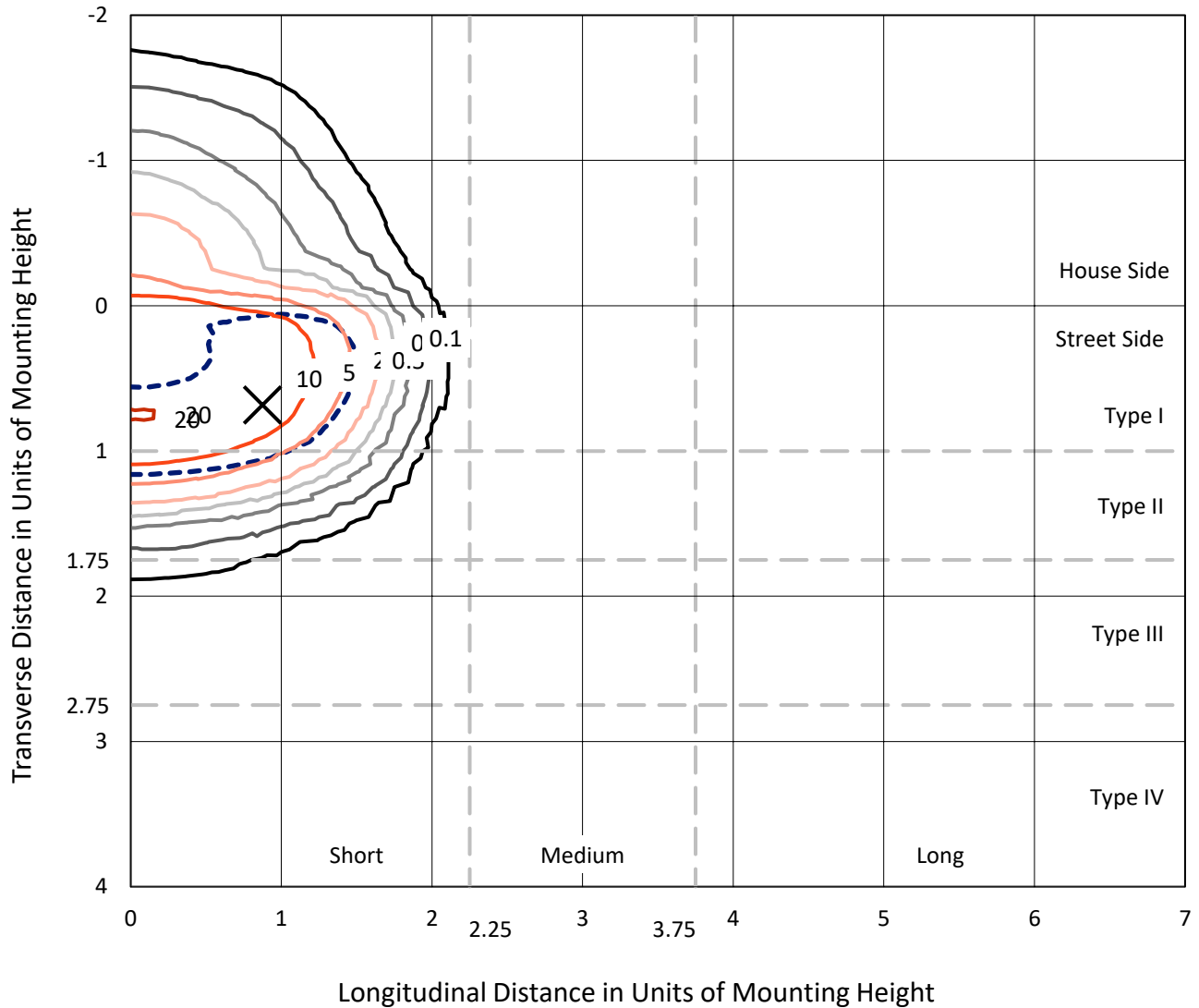
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

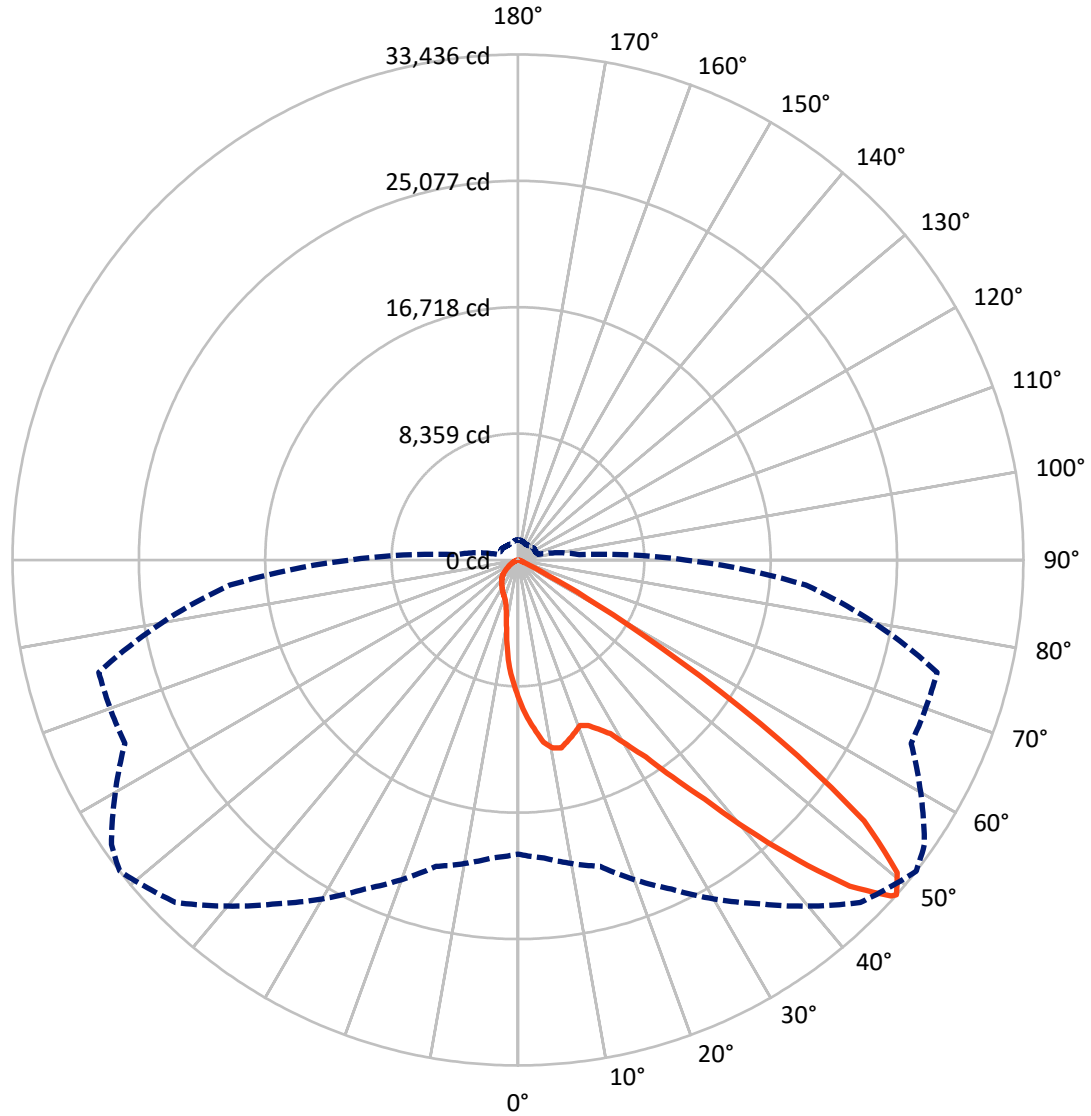
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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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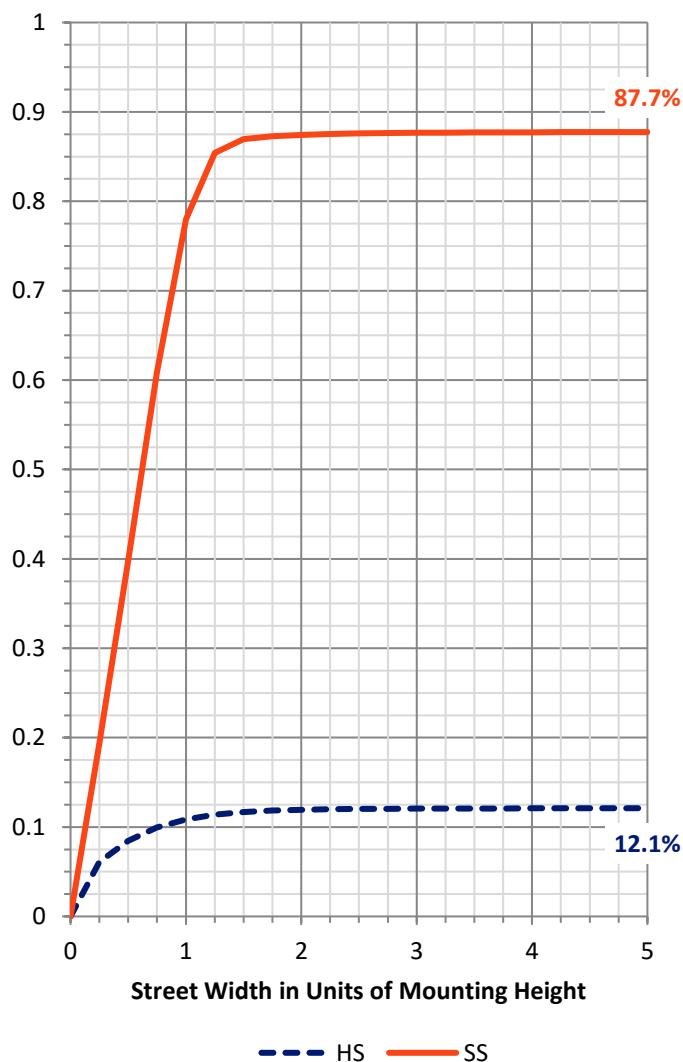
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3881.4	0.0	3881.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	27996.6	0.0	27996.6
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	31878.0	0.0	31878.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	842.6	2.6
10°-20°	2202.0	6.9
20°-30°	3759.7	11.8
30°-40°	6923.5	21.7
40°-50°	10752.3	33.7
50°-60°	6471.0	20.3
60°-70°	748.4	2.3
70°-80°	144.9	0.5
80°-90°	33.5	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°	31878.0	100.0
0°-180°	31878.0	100.0

**Coefficient of Utilization**



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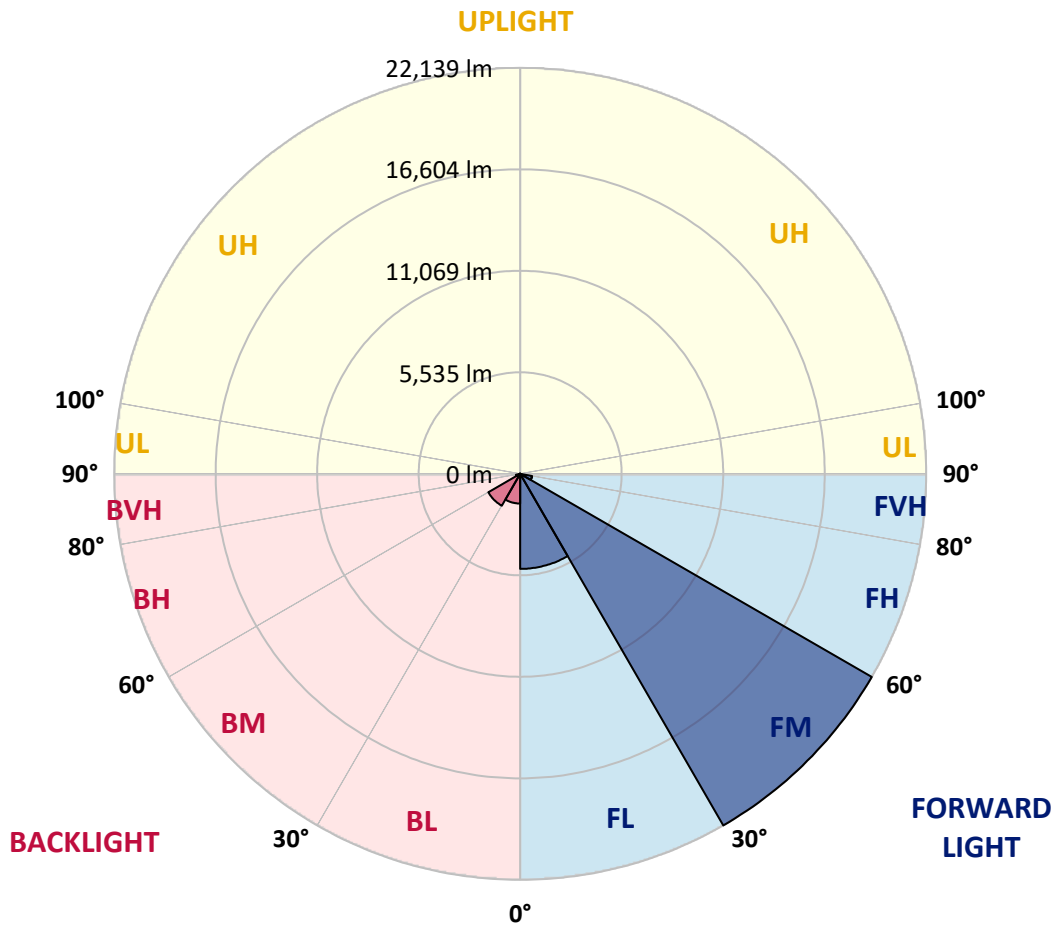
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5183.0	16.3			
FM (30°-60°)	22138.6	69.4			
FH (60°-80°)	659.1	2.1			G0/660
FVH (80°-90°)	15.9	0.0			G1/100
BL (0°-30°)	1621.4	5.1	B3/2500		
BM (30°-60°)	2008.2	6.3	B2/2500		
BH (60°-80°)	234.3	0.7	B1/500		G1/500
BVH (80°-90°)	17.6	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°	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8
2.5°	11157.6	10902.0	10925.3	10758.0	10660.4	10502.4	10288.6	10246.8	10014.4	9698.4	9377.8
5°	12161.4	12101.0	12180.0	11938.3	11947.6	11687.4	11185.5	11194.8	10660.4	10144.5	9647.3
7.5°	12226.4	12087.0	12166.0	12379.8	12505.3	12458.8	12175.3	11929.0	11422.5	10665.0	9940.1
10°	10948.5	11213.4	11297.0	11650.2	12152.1	12681.8	12649.3	12663.3	12240.4	11250.5	10191.0
12.5°	10181.7	10005.1	10288.6	10502.4	11259.8	12286.8	12756.2	12858.4	12891.0	11817.5	10442.0
15°	9833.2	9833.2	9879.7	9940.1	10488.4	11436.4	12393.7	12691.1	13392.8	12561.0	10837.0
17.5°	10051.6	10042.3	10107.4	9981.9	10186.4	10916.0	12059.1	12398.4	13955.1	13290.6	11148.3
20°	10716.1	10748.7	10706.8	10344.4	10358.3	10906.7	11687.4	12221.8	14336.2	13922.6	11561.9
22.5°	11640.9	11659.5	11422.5	11027.5	10911.3	11180.8	11901.1	12310.1	14642.9	14680.1	11687.4
25°	12709.7	12635.4	12588.9	12031.3	11678.1	11910.4	12384.4	12621.4	14833.4	15330.7	12045.2
27.5°	14192.1	14043.4	13760.0	13262.7	13002.5	12672.5	13011.8	13402.1	15377.1	16241.5	12435.5
30°	16380.9	16250.8	15697.8	15056.5	14373.4	14048.1	14155.0	14368.7	16357.7	17296.4	12951.4
32.5°	19675.7	19401.5	18602.2	17380.0	16450.6	15553.7	15525.8	15753.6	17236.0	18755.6	13564.8
35°	23305.0	23221.4	22045.7	20786.3	18987.9	17603.1	17626.3	17747.1	18918.2	20670.1	14368.7
37.5°	25716.9	26176.9	25428.7	24076.4	22566.2	20586.5	20084.6	20126.4	21227.8	22937.9	15818.6
40°	27580.3	27190.0	27278.3	26962.3	25930.6	24583.0	23472.3	23253.9	23899.9	25447.3	17259.2
42.5°	26767.1	26785.7	27329.4	28077.6	28333.2	28235.6	27101.7	26688.1	26186.2	27501.3	18630.1
45°	24471.4	24950.1	25656.4	27636.1	29374.1	31005.2	30782.2	30094.4	27766.2	29127.8	19420.1
47.5°	20809.6	20791.0	21948.1	24522.6	28384.3	32204.2	33217.2	32733.9	28886.2	28946.6	19257.4
48°	19457.3	19791.9	20986.1	24016.0	27756.9	32027.6	33435.6	32826.9	28695.6	28704.9	19118.0
50°	14382.7	14322.3	15809.3	19527.0	24792.1	30094.4	32515.5	32989.5	28691.0	27482.7	18142.1
52.5°	7598.0	7858.2	8941.0	12277.5	17528.7	24629.4	28681.7	29420.6	27677.9	25484.5	16738.7
55°	3229.7	2918.4	3750.2	5543.9	9861.1	16455.3	21041.9	22687.0	23402.6	22552.2	14642.9
57.5°	1152.5	1259.4	1449.9	2086.5	4145.2	9006.0	12547.1	13825.0	16213.6	16548.2	9977.2
60°	738.9	752.8	813.2	957.3	1556.8	3471.4	5952.9	6970.6	8053.4	8313.6	4656.4
62.5°	571.6	576.2	604.1	627.4	738.9	1347.6	2235.2	2648.8	2751.1	2365.4	1222.2
65°	478.6	483.3	492.6	492.6	525.1	632.0	780.7	859.7	836.5	827.2	692.4
67.5°	367.1	376.4	395.0	395.0	413.6	385.7	432.2	460.1	520.5	632.0	590.2
70°	288.1	292.8	306.7	316.0	316.0	278.8	311.4	339.2	381.1	469.4	464.7
72.5°	223.1	232.4	241.6	241.6	227.7	190.5	223.1	246.3	274.2	325.3	316.0
75°	171.9	171.9	176.6	144.1	111.5	97.6	134.8	162.6	204.5	213.8	176.6
77.5°	46.5	51.1	46.5	41.8	46.5	69.7	88.3	102.2	130.1	130.1	116.2
80°	0.0	4.6	13.9	27.9	46.5	65.1	79.0	88.3	102.2	111.5	106.9
82.5°	0.0	4.6	13.9	27.9	41.8	51.1	69.7	74.4	83.6	97.6	97.6
85°	0.0	4.6	9.3	18.6	27.9	32.5	32.5	27.9	27.9	23.2	18.6
87.5°	0.0	0.0	4.6	9.3	9.3	13.9	13.9	13.9	13.9	13.9	13.9
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°	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8	9205.8
2.5°	9252.3	9108.2	8889.8	8546.0	8216.0	8002.2	7797.8	7570.1	7444.6	7435.3	7365.6
5°	9363.8	9038.5	8518.1	7927.9	7295.9	6752.2	6203.8	5846.0	5525.4	5348.8	5316.2
7.5°	9424.2	9001.4	8160.2	7170.4	6092.3	5204.7	4591.3	4140.5	3963.9	3833.8	3829.2
10°	9549.7	8936.3	7625.8	6166.7	4832.9	3936.1	3513.2	3308.7	3211.1	3173.9	3118.2
12.5°	9642.7	8815.5	7077.5	5135.0	3819.9	3262.2	3076.4	3029.9	3034.5	3053.1	3029.9
15°	9772.8	8708.6	6338.6	4214.9	3206.5	2936.9	2936.9	2946.2	3011.3	3020.6	3015.9
17.5°	9763.5	8499.5	5576.5	3471.4	2834.7	2797.5	2811.5	2899.8	2941.6	2955.5	2923.0
20°	9875.0	8304.3	4791.1	2964.8	2625.6	2681.4	2774.3	2797.5	2848.7	2857.9	2820.8
22.5°	9842.5	7816.4	4061.5	2565.2	2467.6	2574.5	2667.4	2695.3	2681.4	2653.5	2648.8
25°	9782.1	7398.1	3392.4	2300.3	2351.4	2467.6	2555.9	2504.8	2476.9	2481.5	2486.2
27.5°	9675.2	6868.4	2839.4	2114.4	2193.4	2365.4	2360.7	2342.1	2370.0	2346.8	2370.0
30°	9656.6	6338.6	2383.9	1947.1	2077.2	2202.7	2212.0	2244.5	2277.1	2235.2	2277.1
32.5°	9684.5	5757.7	2058.7	1844.9	2007.5	2012.2	2114.4	2146.9	2123.7	2030.8	2040.1
35°	9898.2	5311.6	1821.6	1789.1	1896.0	1900.6	1998.2	1956.4	1854.2	1798.4	1830.9
37.5°	10349.0	4939.8	1710.1	1738.0	1747.3	1807.7	1812.4	1728.7	1738.0	1733.4	1751.9
40°	10925.3	4656.4	1631.1	1691.5	1682.2	1724.1	1556.8	1603.2	1645.1	1659.0	1668.3
42.5°	11320.3	4451.9	1580.0	1617.2	1598.6	1524.2	1431.3	1477.8	1510.3	1561.4	1570.7
45°	11496.8	4289.2	1519.6	1487.1	1487.1	1352.3	1315.1	1324.4	1398.8	1454.5	1445.2
47.5°	11208.7	4131.2	1412.7	1315.1	1347.6	1236.1	1194.3	1194.3	1273.3	1343.0	1329.1
48°	11097.2	4066.2	1417.4	1277.9	1301.2	1217.5	1175.7	1166.4	1254.7	1319.8	1319.8
50°	10544.2	3824.5	1296.5	1175.7	1129.2	1119.9	1092.1	1101.4	1157.1	1217.5	1217.5
52.5°	9466.1	3304.1	1096.7	1008.4	924.8	980.5	994.5	975.9	1003.8	1059.5	1054.9
55°	7900.0	2537.3	878.3	836.5	771.4	831.8	859.7	836.5	808.6	850.4	850.4
57.5°	5060.7	1366.2	701.7	711.0	645.9	706.4	729.6	673.8	622.7	655.2	650.6
60°	2281.7	817.9	576.2	562.3	520.5	590.2	627.4	562.3	492.6	515.8	539.1
62.5°	855.1	580.9	436.8	427.5	418.2	483.3	501.9	450.8	381.1	395.0	399.6
65°	627.4	511.2	348.5	316.0	334.6	381.1	371.8	320.6	274.2	274.2	283.5
67.5°	534.4	446.1	283.5	246.3	246.3	250.9	232.4	204.5	190.5	199.8	209.1
70°	418.2	353.2	223.1	190.5	171.9	153.4	134.8	130.1	116.2	130.1	125.5
72.5°	269.5	237.0	171.9	144.1	130.1	106.9	88.3	83.6	69.7	65.1	65.1
75°	144.1	144.1	134.8	116.2	102.2	83.6	69.7	55.8	37.2	27.9	27.9
77.5°	102.2	111.5	120.8	111.5	92.9	69.7	55.8	37.2	18.6	9.3	9.3
80°	97.6	111.5	120.8	106.9	92.9	69.7	51.1	27.9	13.9	4.6	4.6
82.5°	88.3	102.2	111.5	97.6	83.6	60.4	46.5	27.9	13.9	4.6	4.6
85°	18.6	23.2	27.9	27.9	32.5	41.8	32.5	23.2	9.3	4.6	4.6
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	9.3	9.3	4.6	4.6	4.6
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)