

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: P533899

Luminaire Tested: **GALN-SA9B-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533899  
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-SA9B-760-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 800mA 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: 30109 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

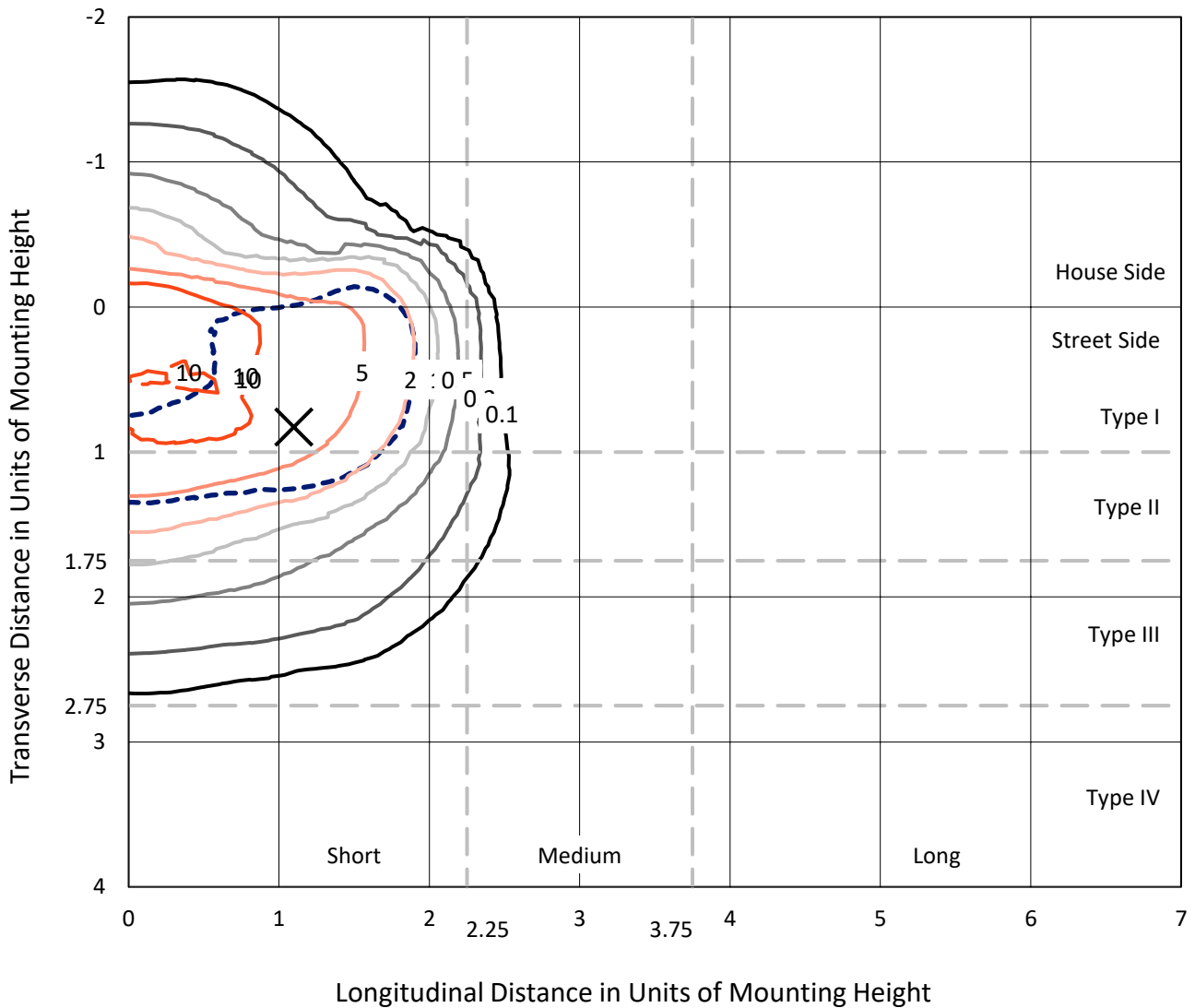
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

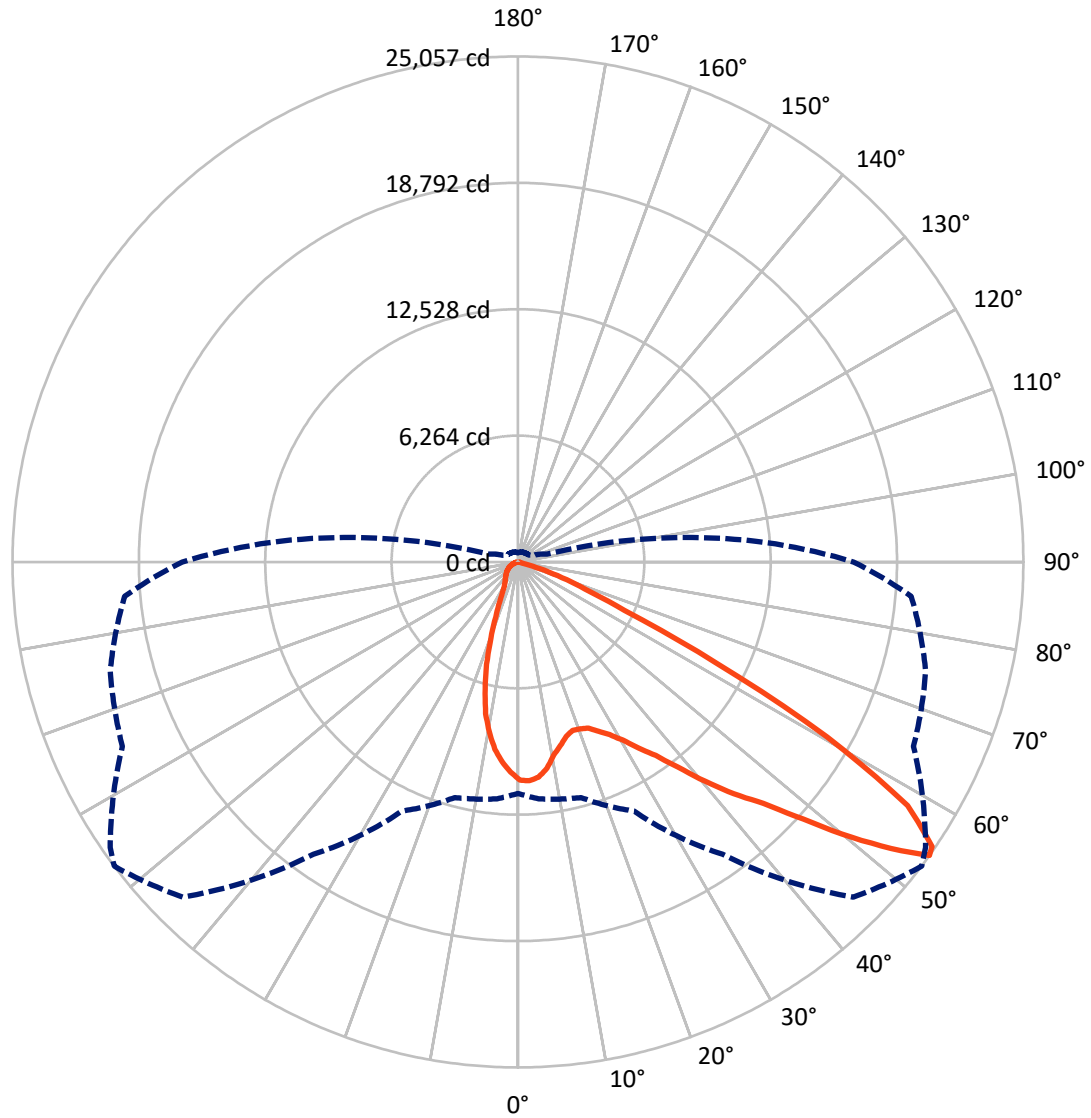
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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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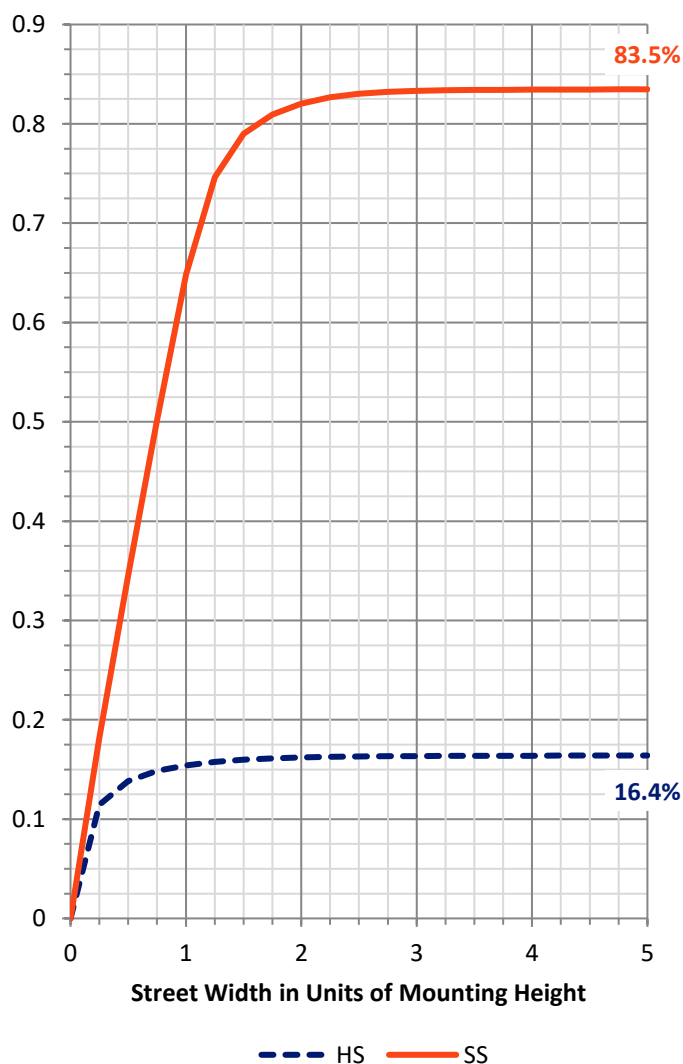
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4981.6	0.0	4981.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	25127.4	0.0	25127.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	30109.0	0.0	30109.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	927.9	3.1
10°-20°	2127.3	7.1
20°-30°	3023.4	10.0
30°-40°	4665.9	15.5
40°-50°	7315.6	24.3
50°-60°	8498.1	28.2
60°-70°	3211.1	10.7
70°-80°	305.3	1.0
80°-90°	34.4	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°	30109.0	100.0
0°-180°	30109.0	100.0

**Coefficient of Utilization**

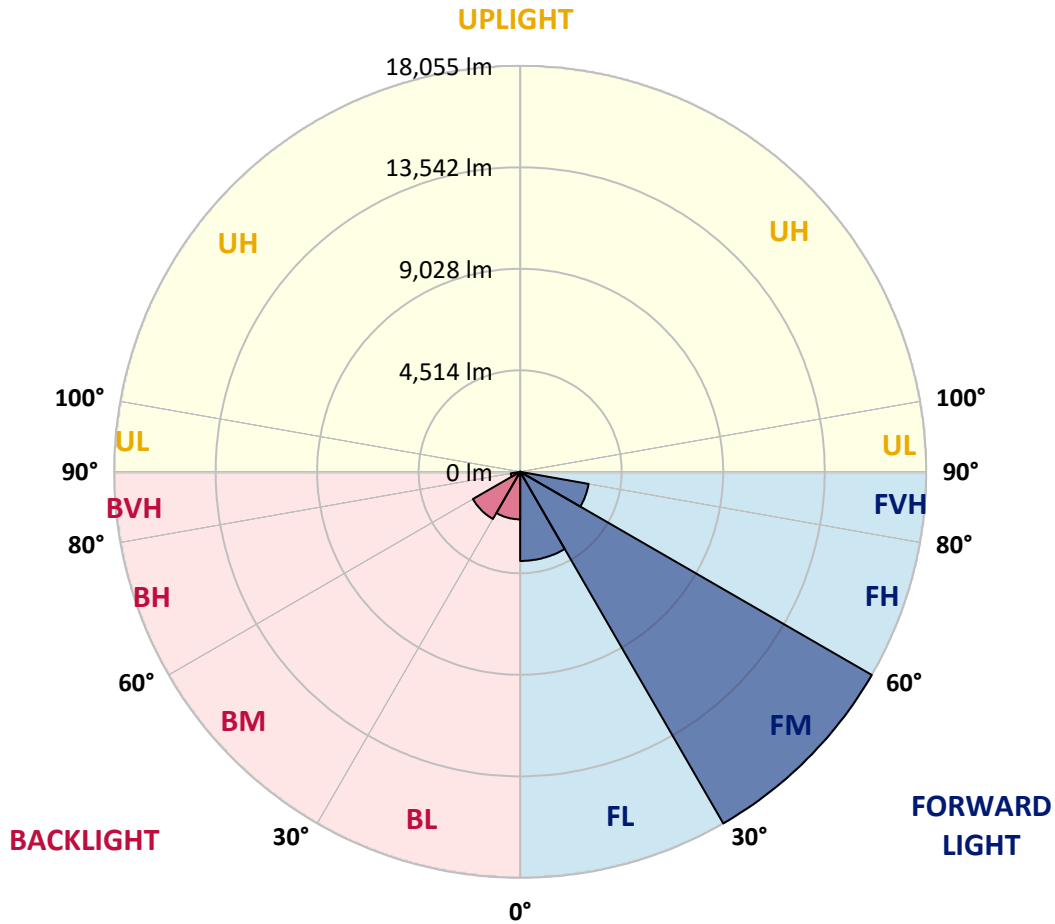


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3964.6	13.2			
FM (30°-60°)	18055.4	60.0			
FH (60°-80°)	3089.6	10.3			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	2114.0	7.0	B3/2500		
BM (30°-60°)	2424.2	8.1	B2/2500		
BH (60°-80°)	426.8	1.4	B1/500		G1/500
BVH (80°-90°)	16.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6
2.5°	10758.6	10663.2	10758.6	10769.8	10837.1	10898.8	10859.5	10949.3	10898.8	10842.7	10825.9
5°	9889.1	10018.1	10023.7	10225.7	10180.8	10551.0	10713.7	10668.8	10943.7	10926.8	10887.6
7.5°	9109.4	9058.9	9126.3	9361.8	9659.1	10085.4	10321.0	10315.4	10708.1	10988.5	10960.5
10°	8385.8	8380.2	8520.5	8705.6	8958.0	9406.7	9732.1	9894.7	10506.1	10932.4	10994.1
12.5°	7897.8	7875.4	8026.8	8178.3	8576.6	8924.3	9339.4	9417.9	10119.1	10736.1	10837.1
15°	7578.1	7628.6	7639.8	7931.5	8183.9	8643.9	8969.2	9131.9	9939.6	10579.1	10966.1
17.5°	7522.0	7589.3	7594.9	7836.1	8105.4	8492.4	8778.5	8997.2	9788.2	10657.6	10971.7
20°	7634.2	7594.9	7628.6	7780.0	8043.7	8413.9	8829.0	8901.9	9737.7	10696.9	11033.4
22.5°	7953.9	7942.7	7858.6	7982.0	8167.1	8554.1	8946.8	9058.9	9883.5	10898.8	11083.9
25°	8307.3	8369.0	8290.5	8273.7	8402.7	8784.1	9305.8	9451.6	10371.5	11263.4	11240.9
27.5°	8969.2	8907.5	8907.5	8829.0	8795.3	8980.4	9692.8	9934.0	10915.6	11734.6	11420.4
30°	9603.0	9670.4	9619.9	9647.9	9423.5	9406.7	10242.5	10539.8	11880.4	12452.5	11801.9
32.5°	10607.1	10517.4	10601.5	10528.6	10231.3	9928.4	10988.5	11297.0	13047.1	13277.1	12374.0
35°	11442.9	11403.6	11762.6	11751.4	11269.0	10971.7	11779.4	12239.4	13860.5	14264.3	13047.1
37.5°	12632.0	12559.1	12968.6	13164.9	12733.0	12289.9	12912.5	13445.4	14617.7	15055.2	13737.1
40°	13854.9	14040.0	14589.7	14915.0	14455.1	13866.1	14298.0	14460.7	15122.6	15571.3	14208.2
42.5°	15403.0	15672.3	16233.2	16513.6	16474.4	15834.9	15705.9	15700.3	15487.2	15425.5	14556.0
45°	16889.5	16788.5	17652.3	18263.7	18757.4	18572.2	17063.4	16895.1	16064.9	15644.2	14645.8
47.5°	17540.1	17506.5	18095.5	19183.7	20866.4	21096.4	19037.8	18387.1	17040.9	16564.1	15133.8
50°	16698.8	16872.6	17456.0	18662.0	21242.3	22997.9	21461.0	20586.0	18179.6	17686.0	16289.3
52.5°	13950.2	14068.0	14623.3	16154.7	19963.3	24119.8	23783.2	23278.4	20271.9	19452.9	18303.0
54°	11470.9	11785.0	12087.9	13624.9	17686.0	23497.2	25056.5	24669.5	21634.9	20922.5	19570.7
55°	9990.1	10175.2	10394.0	11925.3	16109.8	22442.6	24910.7	24944.4	22549.2	21382.5	20423.3
57.5°	7297.6	7426.7	7202.3	7881.0	11061.5	18224.5	22784.8	23693.5	23783.2	22072.4	20945.0
60°	5575.6	5631.7	5379.3	5485.9	6876.9	12508.6	17624.3	18718.1	21455.4	19290.2	17742.1
62.5°	4324.7	4336.0	4330.3	4515.5	4739.8	7359.3	11022.2	11992.6	14791.6	13697.8	12048.7
65°	3186.1	3135.6	3225.3	3786.2	4044.3	4627.6	5805.6	6512.3	8038.1	6787.2	4852.0
67.5°	2064.2	2081.0	2170.8	2815.8	3466.5	3550.7	3573.1	3517.0	3522.6	1940.8	1217.2
70°	1239.6	1267.7	1239.6	1593.0	2479.3	2546.6	2327.8	2271.7	1772.5	460.0	454.3
72.5°	734.8	695.5	622.6	684.3	1032.1	1234.0	1110.6	1105.0	695.5	269.2	269.2
75°	308.5	280.5	230.0	207.5	274.9	263.6	263.6	235.6	185.1	179.5	168.3
77.5°	61.7	61.7	44.9	50.5	67.3	78.5	95.4	95.4	112.2	112.2	106.6
80°	0.0	5.6	16.8	33.7	50.5	72.9	84.1	84.1	95.4	95.4	78.5
82.5°	0.0	5.6	16.8	33.7	44.9	67.3	84.1	84.1	95.4	101.0	84.1
85°	0.0	5.6	16.8	28.0	44.9	56.1	56.1	50.5	39.3	33.7	22.4
87.5°	0.0	0.0	5.6	11.2	5.6	11.2	11.2	11.2	11.2	11.2	11.2
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°	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6	10814.6
2.5°	10865.1	10859.5	10724.9	10506.1	10455.7	10270.5	10248.1	10135.9	10197.6	9990.1	9967.6
5°	10775.4	10708.1	10545.4	10405.2	9995.7	9704.0	9474.0	9193.6	9030.9	9058.9	8952.4
7.5°	10904.4	10730.5	10444.4	9956.4	9457.2	8946.8	8671.9	8099.8	7892.2	7583.7	7538.8
10°	10769.8	10640.8	10197.6	9389.9	8700.0	7965.1	7320.1	6686.2	6203.8	5996.3	5951.4
12.5°	10758.6	10534.2	9793.8	8896.3	7897.8	6843.3	5906.5	5115.6	4638.9	4369.6	4307.9
15°	10584.7	10315.4	9339.4	8133.4	6753.5	5441.0	4420.1	3657.2	3292.6	3135.6	3180.4
17.5°	10601.5	10197.6	8885.1	7325.7	5626.1	3993.8	3017.8	2625.1	2529.8	2569.0	2569.0
20°	10584.7	9934.0	8335.4	6394.6	4307.9	2771.0	2215.7	2075.4	2137.1	2260.5	2232.5
22.5°	10494.9	9810.6	7830.5	5412.9	3169.2	2053.0	1778.1	1783.7	1879.1	2030.6	2064.2
25°	10562.2	9535.7	7191.1	4420.1	2311.0	1637.9	1542.5	1581.8	1682.8	1795.0	1817.4
27.5°	10511.7	9339.4	6523.6	3432.9	1688.4	1407.9	1402.3	1447.2	1492.1	1576.2	1576.2
30°	10567.8	9159.9	5867.3	2552.2	1391.1	1290.1	1267.7	1301.3	1346.2	1363.0	1357.4
32.5°	10775.4	9025.3	5110.0	1907.1	1228.4	1177.9	1177.9	1177.9	1172.3	1194.8	1200.4
35°	11229.7	9047.7	4442.5	1475.2	1121.9	1082.6	1065.8	1043.3	1032.1	1043.3	1048.9
37.5°	11723.3	9036.5	3752.6	1256.5	1043.3	1009.7	970.4	936.7	931.1	942.4	925.5
40°	11942.1	9143.1	3113.1	1127.5	970.4	931.1	869.4	841.4	847.0	858.2	847.0
42.5°	12239.4	9176.7	2698.1	1026.5	903.1	841.4	802.1	768.5	762.9	779.7	774.1
45°	12233.8	8986.0	2260.5	970.4	841.4	774.1	723.6	695.5	695.5	706.8	712.4
47.5°	12592.8	8958.0	1940.8	919.9	796.5	729.2	667.5	645.1	639.5	639.5	628.2
50°	13428.6	9350.6	1694.0	863.8	740.4	678.7	628.2	600.2	577.8	566.5	560.9
52.5°	15060.9	10573.4	1503.3	796.5	678.7	628.2	583.4	560.9	532.9	504.8	499.2
54°	16642.7	11835.5	1492.1	740.4	628.2	594.6	555.3	544.1	510.4	471.2	460.0
55°	17355.0	12570.3	1531.3	695.5	594.6	572.1	538.5	527.3	493.6	448.7	443.1
57.5°	17944.0	12856.4	1508.9	577.8	538.5	532.9	504.8	488.0	448.7	387.0	375.8
60°	14443.8	9720.8	1082.6	510.4	493.6	482.4	460.0	448.7	398.3	330.9	325.3
62.5°	9126.3	5592.4	689.9	448.7	431.9	415.1	387.0	375.8	330.9	263.6	246.8
65°	3887.2	2316.6	465.6	398.3	370.2	342.2	319.7	302.9	263.6	196.3	190.7
67.5°	1009.7	824.6	387.0	347.8	308.5	269.2	252.4	224.4	179.5	134.6	129.0
70°	454.3	415.1	325.3	291.7	246.8	207.5	185.1	157.1	117.8	89.7	84.1
72.5°	269.2	263.6	246.8	218.8	185.1	157.1	134.6	106.6	78.5	50.5	50.5
75°	168.3	162.7	168.3	151.4	129.0	117.8	101.0	72.9	44.9	22.4	22.4
77.5°	101.0	101.0	101.0	95.4	89.7	89.7	72.9	44.9	22.4	5.6	5.6
80°	78.5	78.5	84.1	78.5	78.5	78.5	61.7	33.7	11.2	0.0	0.0
82.5°	78.5	84.1	95.4	89.7	78.5	67.3	56.1	33.7	11.2	0.0	0.0
85°	22.4	16.8	28.0	39.3	56.1	50.5	39.3	28.0	11.2	0.0	0.0
87.5°	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	5.6	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)