

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: P533884

Luminaire Tested: **GALN-SA9B-750-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533884  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-750-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45330 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

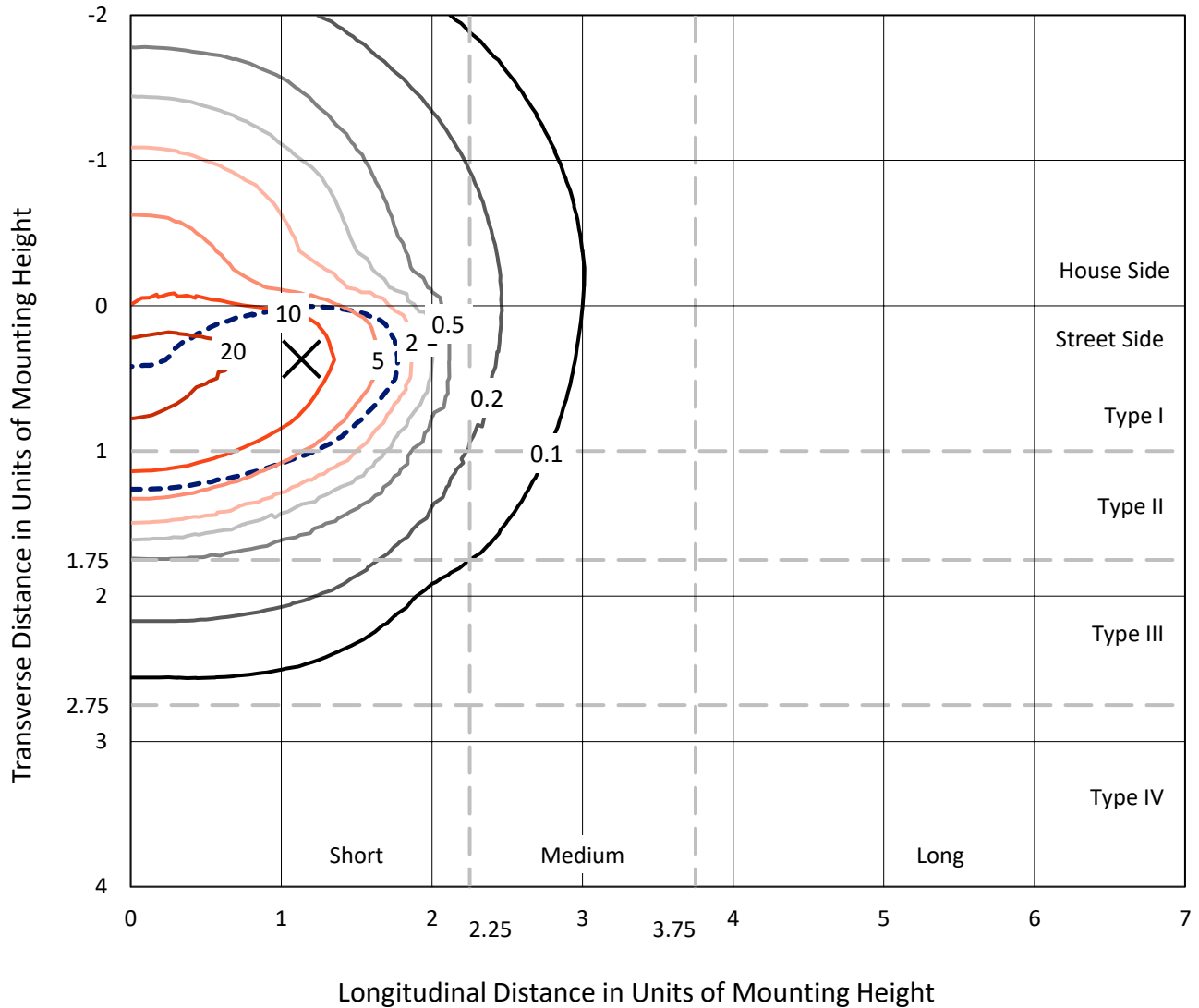
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

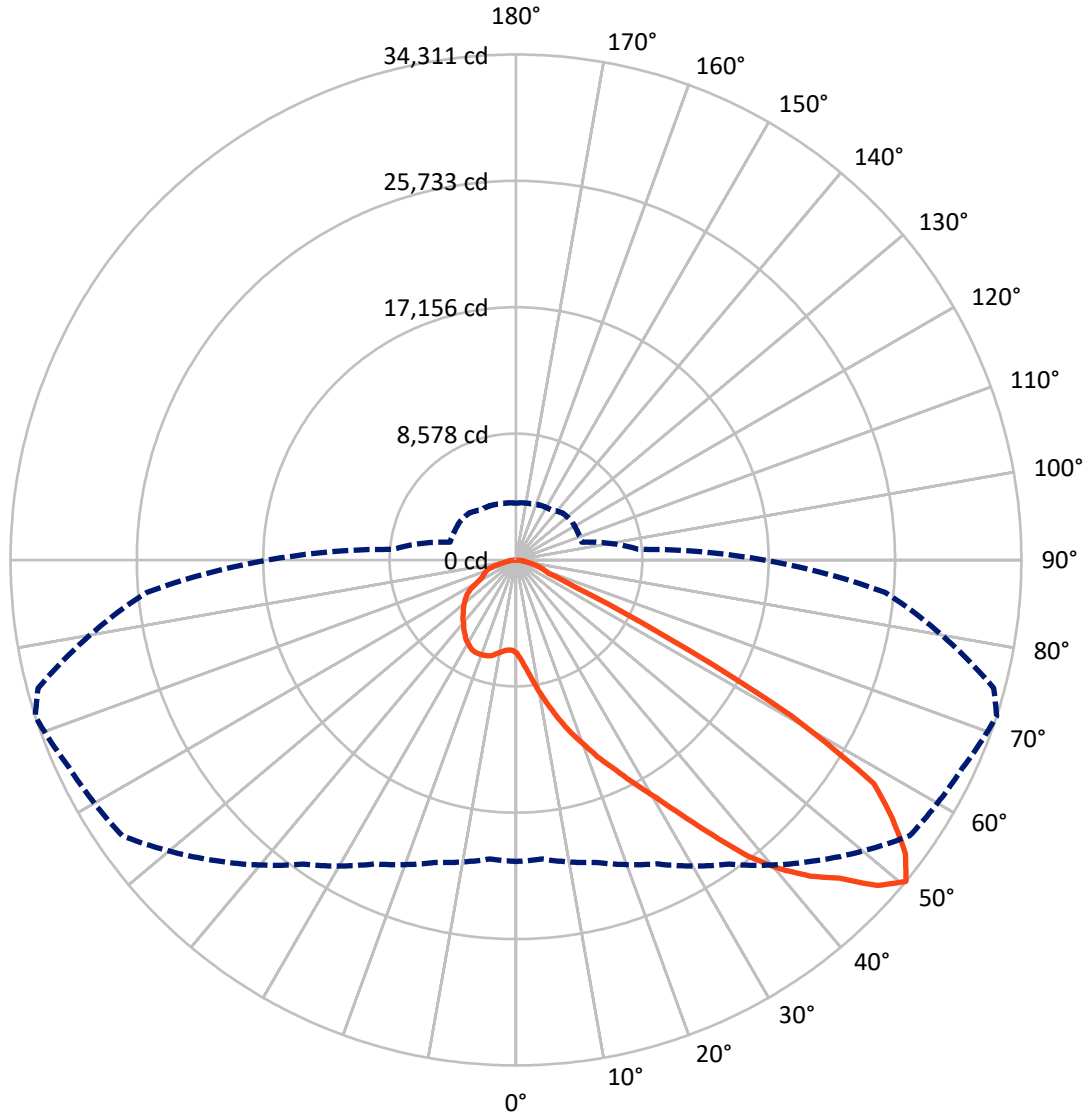
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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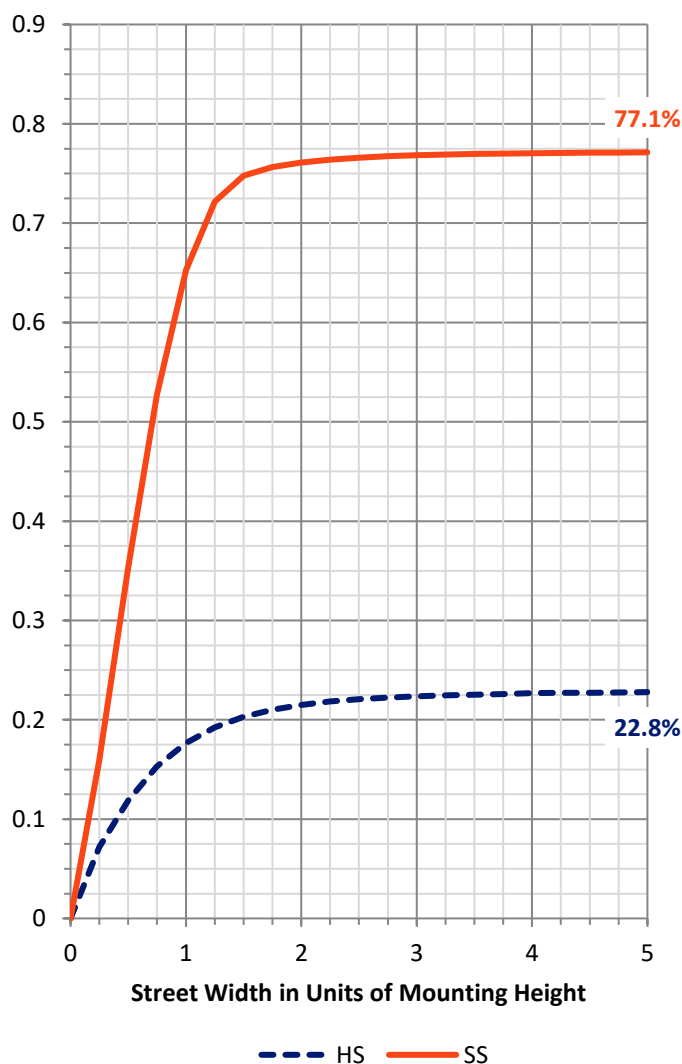
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10385.4	0.0	10385.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	34944.6	0.0	34944.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	45330.0	0.0	45330.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	742.2	1.6
10°-20°	2774.8	6.1
20°-30°	5380.1	11.9
30°-40°	8913.0	19.7
40°-50°	12471.2	27.5
50°-60°	10521.1	23.2
60°-70°	3206.8	7.1
70°-80°	1125.0	2.5
80°-90°	195.6	0.4
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°	45330.0	100.0
0°-180°	45330.0	100.0

**Coefficient of Utilization**



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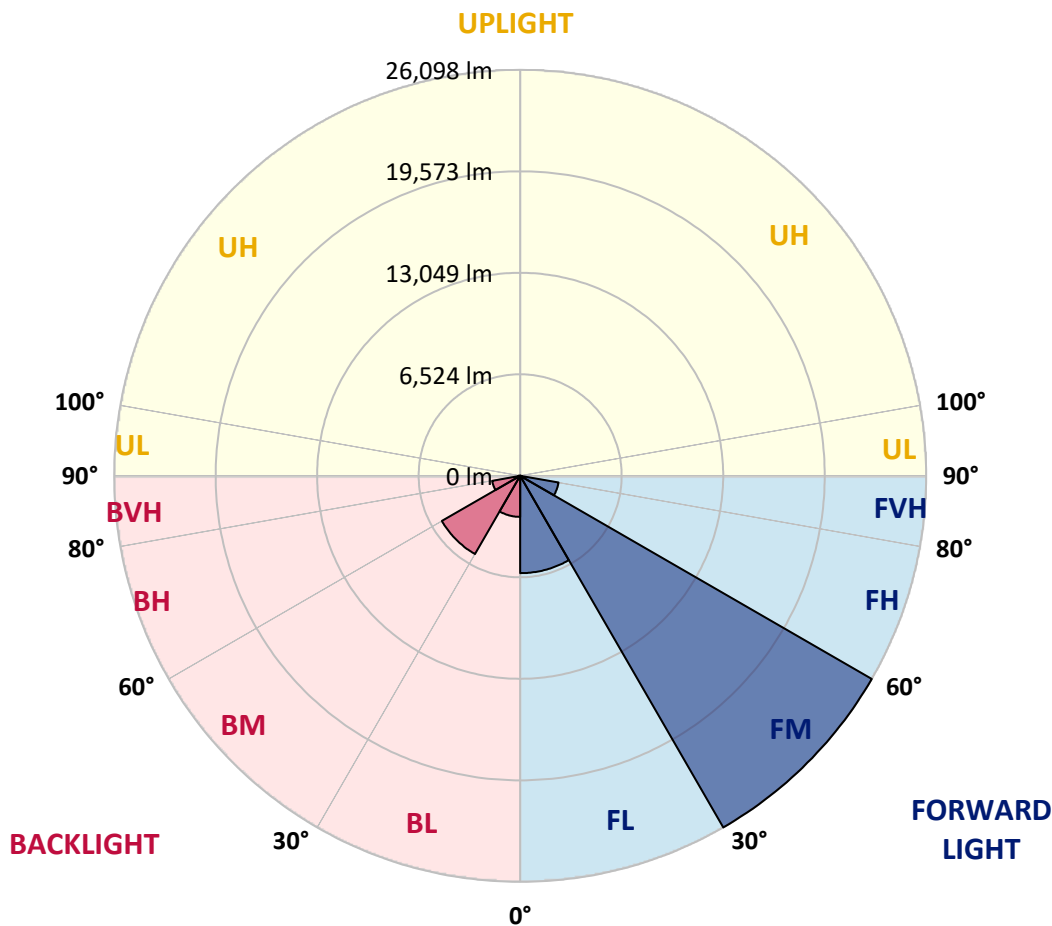
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6257.2	13.8			
FM (30°-60°)	26097.7	57.6			
FH (60°-80°)	2502.2	5.5			G2/5000
FVH (80°-90°)	87.6	0.2			G1/100
BL (0°-30°)	2640.0	5.8	B4/5000		
BM (30°-60°)	5807.7	12.8	B4/8500		
BH (60°-80°)	1829.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	108.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3
2.5°	8116.5	8066.0	7914.5	7864.1	7684.6	7359.2	7247.1	6916.1	6775.9	6646.9	6495.4
5°	10264.8	10029.2	10012.4	9726.3	9311.2	9070.0	8352.1	7869.7	7426.5	7202.2	6787.1
7.5°	11633.4	11639.0	11639.0	11403.5	11072.5	10461.1	9816.1	8946.6	8279.1	7948.2	7241.4
10°	12934.8	12822.6	12760.9	12738.4	12514.1	11919.5	11229.6	10152.6	9238.3	8851.3	7583.6
12.5°	13854.7	13759.3	13899.5	13826.6	13664.0	13276.9	12626.3	11397.8	10253.6	9731.9	8133.3
15°	14292.2	14359.5	14471.7	14673.6	14600.7	14454.8	13736.9	12676.7	11347.4	10758.4	8621.3
17.5°	14965.3	14780.2	14914.8	15167.2	15369.1	15301.8	14892.4	13602.3	12429.9	11706.3	9277.6
20°	15436.5	15329.9	15397.2	15688.9	15840.3	16221.7	16008.6	14813.8	13467.6	12704.8	10051.6
22.5°	16782.7	16625.6	16406.8	16451.7	16507.8	16777.0	16827.5	16143.2	14673.6	13865.9	10786.4
25°	18443.0	18297.1	18039.1	17775.5	17612.8	17562.3	17736.2	17186.5	15829.1	14993.3	11577.3
27.5°	20271.6	20024.8	19862.1	19318.0	18880.5	18813.2	18729.0	18431.8	17197.7	16294.7	12469.2
30°	22049.7	21853.3	21634.6	20765.2	20310.8	20237.9	19822.8	19907.0	18684.2	17680.1	13478.8
32.5°	23395.9	23412.7	22913.5	22257.2	21830.9	21443.9	21292.4	21533.6	20591.3	19783.6	14606.3
35°	24484.1	24534.5	24057.8	23463.2	23003.2	23272.5	23205.2	23317.3	22868.6	21881.4	15918.8
37.5°	25544.2	25291.8	24781.3	24495.3	24254.1	24697.2	25269.3	25364.7	25448.8	24287.7	17444.5
40°	25718.1	25740.5	25443.2	25645.2	25342.3	26009.7	27339.1	27215.7	27557.9	26542.6	19099.2
42.5°	25471.3	25521.7	25639.5	25925.6	26654.8	27456.9	29431.3	28926.5	29341.6	28438.5	20709.1
45°	25067.4	24859.9	25005.7	26093.9	27355.9	29139.7	31344.1	30951.4	30816.8	30059.6	22627.4
47.5°	23137.8	23351.0	23805.3	25145.9	27041.8	29431.3	32701.5	32611.7	33015.6	32482.7	24371.9
50°	20462.3	20378.1	21253.2	22762.0	25207.6	28859.2	32628.6	33441.9	34311.3	33570.9	25151.5
52.5°	15324.3	15773.0	16524.6	18398.1	21887.0	25740.5	31035.6	32393.0	33099.7	32942.7	24523.3
55°	9687.0	9821.7	10276.0	12502.9	15644.0	20658.6	26604.3	29751.1	31013.1	31602.1	23945.6
57.5°	4706.1	4453.7	5009.0	6798.3	9036.4	13893.9	20518.4	25914.4	28657.3	29723.0	22689.1
60°	2456.8	2552.2	2770.9	3410.4	4672.4	7213.4	12788.9	17270.7	21460.7	23098.6	17197.7
62.5°	2036.1	2069.8	2215.6	2535.3	3107.5	4150.8	6529.1	8419.4	10943.5	12418.7	9782.4
65°	1727.6	1744.5	1901.5	2114.7	2479.3	2922.4	3359.9	3517.0	4257.4	4369.5	3477.7
67.5°	1441.6	1458.4	1626.7	1828.6	2064.2	2182.0	2294.2	2282.9	2367.1	2333.4	2327.8
70°	1110.6	1127.4	1301.3	1514.5	1632.3	1565.0	1912.7	1991.3	2024.9	2053.0	2097.8
72.5°	802.1	835.8	970.4	1121.8	1060.1	1217.2	1576.2	1694.0	1738.8	1755.7	1811.8
75°	583.4	594.6	628.2	583.4	673.1	847.0	1110.6	1256.5	1312.5	1329.4	1413.5
77.5°	258.0	263.6	269.2	336.6	431.9	527.3	661.9	779.7	858.2	880.6	903.1
80°	134.6	140.2	173.9	230.0	308.5	387.0	482.4	549.7	600.2	605.8	628.2
82.5°	84.1	89.7	123.4	162.7	218.8	286.1	353.4	409.5	448.7	454.3	460.0
85°	39.3	50.5	72.9	101.0	145.8	185.1	190.7	162.7	173.9	179.5	168.3
87.5°	11.2	16.8	22.4	16.8	22.4	22.4	28.0	33.7	33.7	33.7	39.3
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°	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3	6310.3
2.5°	6411.3	6360.8	6164.5	6091.6	5900.9	5934.5	5833.5	5827.9	5805.5	5799.9	5794.3
5°	6568.3	6411.3	6175.7	5996.2	5889.6	5878.4	5805.5	5805.5	5827.9	5844.8	5805.5
7.5°	6826.4	6646.9	6248.6	6080.3	5985.0	5968.2	5917.7	5878.4	5928.9	5912.1	5867.2
10°	7123.7	6809.5	6388.9	6243.0	6086.0	6046.7	6046.7	6063.5	5979.4	6007.4	5962.6
12.5°	7454.6	7033.9	6568.3	6400.1	6215.0	6192.5	6181.3	6057.9	6102.8	6080.3	5968.2
15°	7875.3	7291.9	6798.3	6512.3	6355.2	6254.2	6108.4	6086.0	6057.9	6001.8	5951.3
17.5°	8329.6	7572.4	6904.9	6545.9	6310.3	6237.4	6125.2	6007.4	5923.3	5934.5	5895.2
20°	8716.7	7830.4	6944.2	6579.6	6276.7	6136.4	5962.6	5889.6	5799.9	5794.3	5788.7
22.5°	9176.6	8178.2	7000.3	6489.8	6175.7	6029.9	5912.1	5783.1	5721.4	5642.8	5682.1
25°	9726.3	8312.8	7011.5	6439.3	6102.8	5844.8	5783.1	5642.8	5620.4	5508.2	5530.6
27.5°	10124.6	8385.7	6921.7	6282.3	5934.5	5738.2	5626.0	5525.0	5485.8	5401.6	5379.2
30°	10657.4	8497.9	6731.0	6086.0	5766.2	5547.5	5480.2	5457.7	5345.5	5255.8	5244.6
32.5°	11263.2	8570.8	6607.6	5884.0	5592.3	5424.1	5457.7	5351.2	5210.9	5132.4	5110.0
35°	11745.6	8598.9	6299.1	5654.0	5474.6	5368.0	5328.7	5306.3	5104.3	5031.4	4975.3
37.5°	12480.4	8537.2	6041.1	5491.4	5345.5	5306.3	5272.6	5121.2	4891.2	4784.6	4706.1
40°	13338.6	8520.3	5710.1	5261.4	5222.1	5267.0	5166.1	4930.5	4610.7	4492.9	4436.9
42.5°	14163.2	8638.1	5502.6	5138.0	5087.5	5104.3	4964.1	4610.7	4453.7	4386.4	4296.6
45°	15543.0	8884.9	5160.4	4947.3	4924.9	4913.6	4745.4	4375.2	4285.4	4201.3	4184.4
47.5°	16788.3	8722.3	4941.7	4751.0	4773.4	4711.7	4352.7	4234.9	4134.0	4049.8	4021.8
50°	16861.2	8335.2	4633.2	4599.5	4605.1	4498.6	4156.4	4077.9	3948.9	3892.8	3853.5
52.5°	16479.8	7701.4	4347.1	4358.3	4375.2	4201.3	3915.2	3859.1	3752.5	3674.0	3651.6
55°	15408.4	6714.2	4066.7	4111.5	4156.4	3825.5	3735.7	3595.5	3511.3	3399.2	3404.8
57.5°	13574.2	5407.2	3674.0	3746.9	3842.3	3477.7	3410.4	3236.5	3113.1	3023.3	3012.1
60°	9098.1	3847.9	3085.0	3113.1	3326.2	3180.4	3174.8	3000.9	2832.6	2754.1	2709.2
62.5°	5368.0	2939.2	2664.4	2636.3	2630.7	2714.8	2855.1	2793.4	2574.6	2423.2	2468.0
65°	2810.2	2541.0	2479.3	2383.9	2327.8	2305.4	2411.9	2440.0	2294.2	2131.5	2120.3
67.5°	2361.5	2361.5	2311.0	2277.3	2198.8	2103.4	2036.1	1946.4	1923.9	1879.1	1823.0
70°	2148.3	2204.4	2187.6	2109.1	2041.7	1935.2	1761.3	1615.4	1475.2	1424.7	1458.4
72.5°	1873.5	1929.6	1929.6	1890.3	1800.5	1637.9	1469.6	1301.3	1183.5	1093.8	1082.6
75°	1441.6	1469.6	1536.9	1492.0	1374.2	1273.3	1099.4	925.5	813.3	729.2	712.4
77.5°	919.9	964.8	964.8	959.2	875.0	779.7	667.5	544.1	460.0	398.3	381.4
80°	611.4	639.4	661.9	639.4	583.4	510.4	426.3	342.2	280.5	230.0	218.8
82.5°	448.7	482.4	499.2	476.8	420.7	364.6	302.9	241.2	179.5	140.2	129.0
85°	173.9	179.5	201.9	241.2	235.6	230.0	185.1	134.6	101.0	72.9	67.3
87.5°	44.9	39.3	44.9	44.9	39.3	33.7	33.7	33.7	33.7	16.8	22.4
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)