

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: P532391

Luminaire Tested: **GALN-SA7D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532391
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-SA7D-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 28642 lumens
Efficiency: N/A
Efficacy: 66.1 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

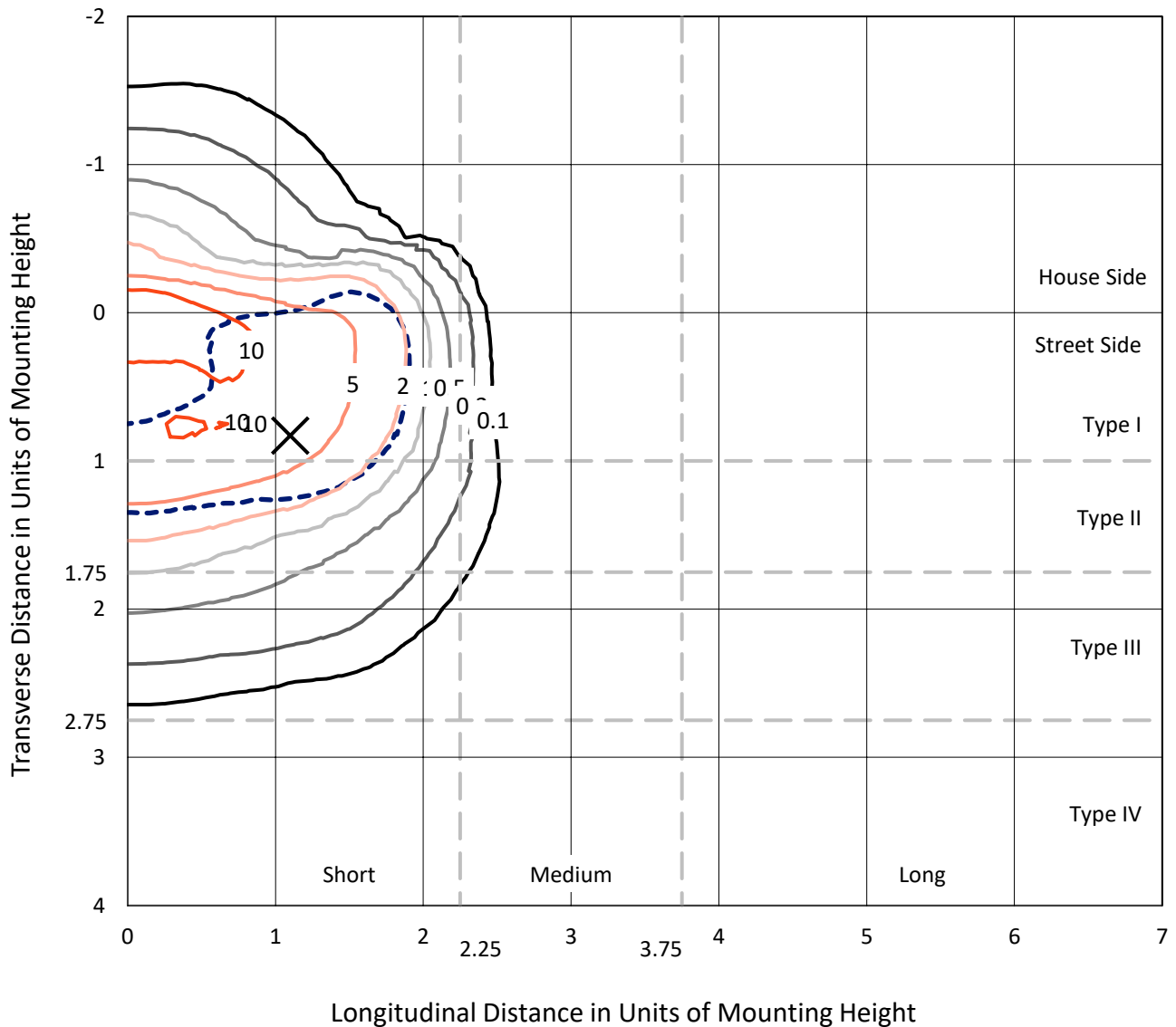
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

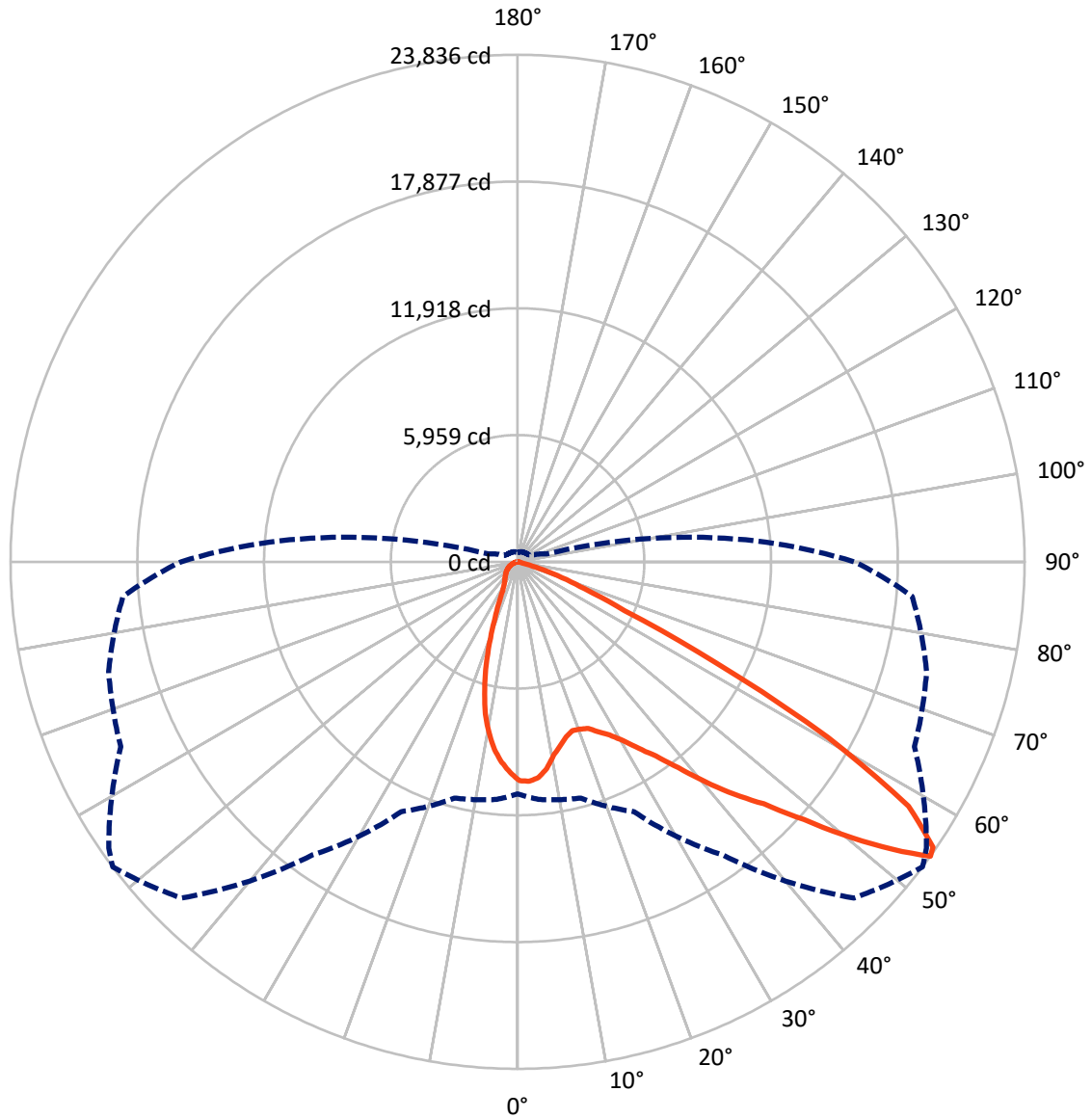
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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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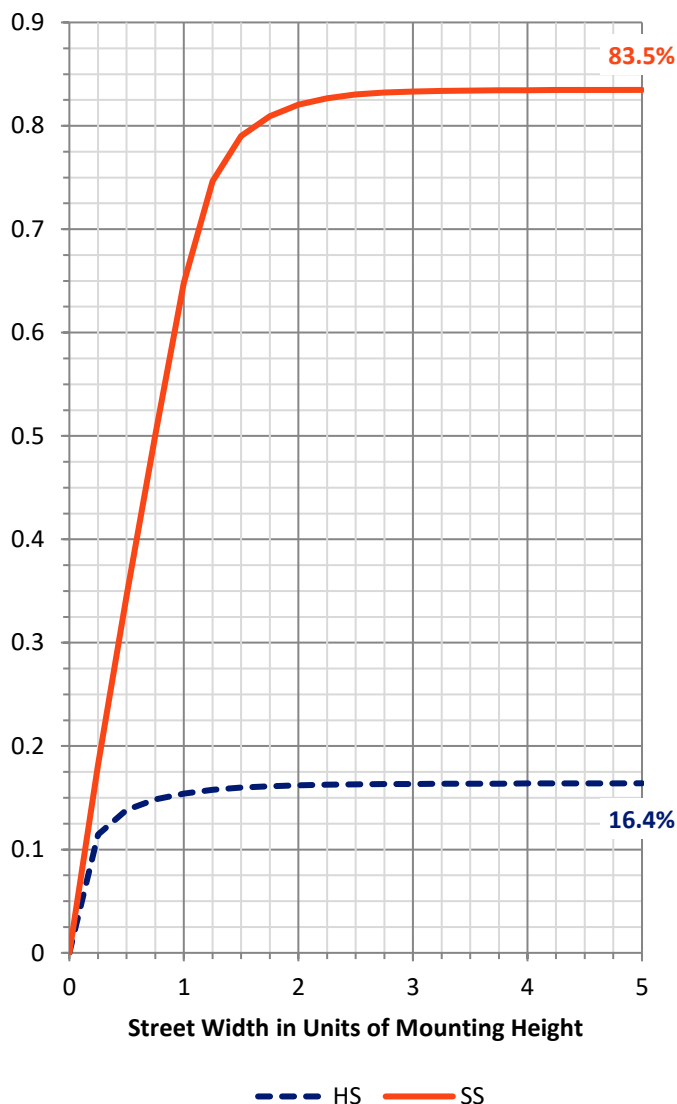
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4738.9	0.0	4738.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23903.1	0.0	23903.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	28642.0	0.0	28642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.7	3.1
10°-20°	2023.7	7.1
20°-30°	2876.1	10.0
30°-40°	4438.5	15.5
40°-50°	6959.2	24.3
50°-60°	8084.1	28.2
60°-70°	3054.7	10.7
70°-80°	290.5	1.0
80°-90°	32.7	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°	28642.0	100.0
0°-180°	28642.0	100.0

Coefficient of Utilization



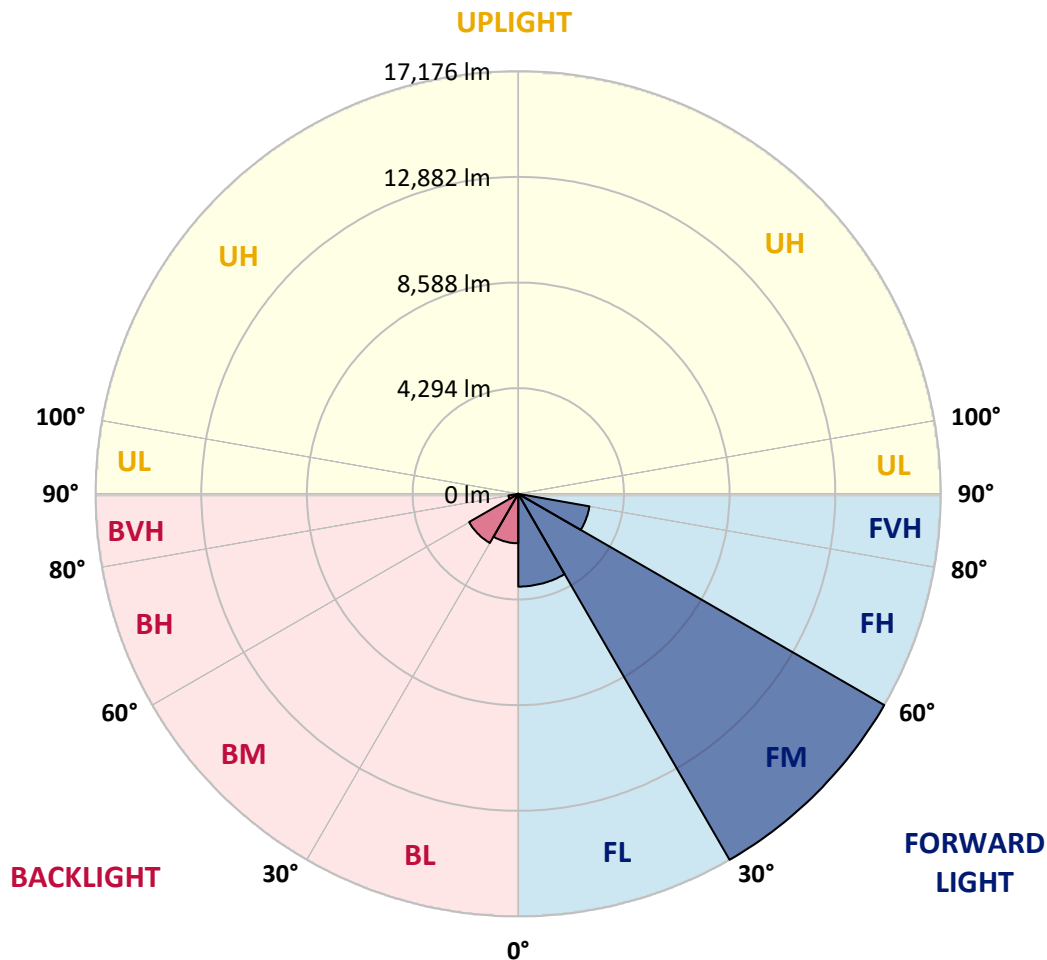
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3771.4	13.2			
FM (30°-60°)	17175.7	60.0			
FH (60°-80°)	2939.1	10.3			G2/5000
FVH (80°-90°)	16.9	0.1			G1/100
BL (0°-30°)	2011.0	7.0	B3/2500		
BM (30°-60°)	2306.1	8.1	B2/2500		
BH (60°-80°)	406.0	1.4	B1/500		G1/500
BVH (80°-90°)	15.8	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°	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7
2.5°	10234.4	10143.7	10234.4	10245.0	10309.1	10367.8	10330.4	10415.8	10367.8	10314.4	10298.4
5°	9407.3	9530.0	9535.4	9727.4	9684.8	10036.9	10191.7	10149.0	10410.5	10394.4	10357.1
7.5°	8665.6	8617.6	8681.6	8905.7	9188.5	9594.0	9818.2	9812.8	10186.3	10453.1	10426.5
10°	7977.3	7971.9	8105.3	8281.4	8521.5	8948.4	9257.9	9412.6	9994.2	10399.8	10458.5
12.5°	7513.0	7491.7	7635.8	7779.8	8158.7	8489.5	8884.4	8959.1	9626.1	10213.0	10309.1
15°	7208.9	7256.9	7267.6	7545.0	7785.2	8222.7	8532.2	8686.9	9455.3	10063.6	10431.8
17.5°	7155.5	7219.5	7224.9	7454.3	7710.5	8078.6	8350.8	8558.9	9311.2	10138.3	10437.1
20°	7262.2	7224.9	7256.9	7401.0	7651.8	8003.9	8398.8	8468.2	9263.2	10175.7	10495.8
22.5°	7566.4	7555.7	7475.7	7593.1	7769.2	8137.3	8510.9	8617.6	9402.0	10367.8	10543.8
25°	7902.6	7961.2	7886.5	7870.5	7993.3	8356.1	8852.4	8991.1	9866.2	10714.6	10693.3
27.5°	8532.2	8473.5	8473.5	8398.8	8366.8	8542.9	9220.5	9450.0	10383.8	11162.8	10864.0
30°	9135.2	9199.2	9151.2	9177.8	8964.4	8948.4	9743.5	10026.3	11301.6	11845.8	11226.9
32.5°	10090.3	10004.9	10085.0	10015.6	9732.8	9444.6	10453.1	10746.6	12411.4	12630.2	11771.1
35°	10885.4	10848.0	11189.5	11178.8	10719.9	10437.1	11205.5	11643.1	13185.1	13569.3	12411.4
37.5°	12016.6	11947.2	12336.7	12523.5	12112.6	11691.1	12283.4	12790.3	13905.5	14321.7	13067.8
40°	13179.8	13355.9	13878.8	14188.3	13750.8	13190.5	13601.4	13756.1	14385.7	14812.6	13516.0
42.5°	14652.5	14908.7	15442.3	15709.1	15671.7	15063.4	14940.7	14935.3	14732.6	14673.9	13846.8
45°	16066.6	15970.5	16792.3	17373.9	17843.4	17667.4	16232.0	16071.9	15282.2	14882.0	13932.2
47.5°	16685.5	16653.5	17213.8	18249.0	19849.8	20068.5	18110.2	17491.3	16210.6	15757.1	14396.4
50°	15885.1	16050.6	16605.5	17752.7	20207.3	21877.4	20415.4	19583.0	17293.8	16824.3	15495.6
52.5°	13270.5	13382.6	13910.8	15367.6	18990.7	22944.6	22624.5	22144.2	19284.1	18505.1	17411.2
54°	10912.0	11210.8	11499.0	12961.0	16824.3	22352.3	23835.7	23467.5	20580.8	19903.1	18617.2
55°	9503.3	9679.4	9887.5	11344.2	15324.9	21349.2	23697.0	23729.0	21450.5	20340.7	19428.2
57.5°	6942.1	7064.8	6851.4	7497.0	10522.5	17336.5	21674.7	22539.1	22624.5	20997.0	19924.5
60°	5303.9	5357.3	5117.2	5218.6	6541.9	11899.2	16765.6	17806.1	20410.0	18350.4	16877.6
62.5°	4114.0	4124.7	4119.4	4295.4	4508.9	7000.8	10485.2	11408.3	14070.9	13030.4	11461.6
65°	3030.8	2982.8	3068.2	3601.8	3847.2	4402.2	5522.7	6195.0	7646.4	6456.5	4615.6
67.5°	1963.6	1979.6	2065.0	2678.6	3297.6	3377.7	3399.0	3345.6	3351.0	1846.2	1157.9
70°	1179.2	1205.9	1179.2	1515.4	2358.5	2422.5	2214.4	2161.1	1686.2	437.5	432.2
72.5°	699.0	661.7	592.3	651.0	981.8	1173.9	1056.5	1051.2	661.7	256.1	256.1
75°	293.5	266.8	218.8	197.4	261.5	250.8	250.8	224.1	176.1	170.8	160.1
77.5°	58.7	58.7	42.7	48.0	64.0	74.7	90.7	90.7	106.7	106.7	101.4
80°	0.0	5.3	16.0	32.0	48.0	69.4	80.0	80.0	90.7	90.7	74.7
82.5°	0.0	5.3	16.0	32.0	42.7	64.0	80.0	80.0	90.7	96.0	80.0
85°	0.0	5.3	16.0	26.7	42.7	53.4	53.4	48.0	37.4	32.0	21.3
87.5°	0.0	0.0	5.3	10.7	5.3	10.7	10.7	10.7	10.7	10.7	10.7
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°	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7	10287.7
2.5°	10335.7	10330.4	10202.3	9994.2	9946.2	9770.1	9748.8	9642.1	9700.8	9503.3	9482.0
5°	10250.4	10186.3	10031.6	9898.2	9508.7	9231.2	9012.4	8745.6	8590.9	8617.6	8516.2
7.5°	10373.1	10207.7	9935.6	9471.3	8996.4	8510.9	8249.4	7705.1	7507.7	7214.2	7171.5
10°	10245.0	10122.3	9700.8	8932.4	8276.1	7577.1	6963.4	6360.5	5901.6	5704.1	5661.4
12.5°	10234.4	10020.9	9316.6	8462.8	7513.0	6509.9	5618.8	4866.4	4412.8	4156.7	4098.0
15°	10068.9	9812.8	8884.4	7737.1	6424.5	5175.9	4204.7	3479.0	3132.2	2982.8	3025.5
17.5°	10085.0	9700.8	8452.2	6968.8	5352.0	3799.2	2870.7	2497.2	2406.5	2443.9	2443.9
20°	10068.9	9450.0	7929.2	6083.0	4098.0	2636.0	2107.7	1974.3	2033.0	2150.4	2123.7
22.5°	9983.6	9332.6	7449.0	5149.2	3014.8	1953.0	1691.5	1696.8	1787.5	1931.6	1963.6
25°	10047.6	9071.1	6840.7	4204.7	2198.4	1558.1	1467.4	1504.7	1600.8	1707.5	1728.8
27.5°	9999.6	8884.4	6205.7	3265.6	1606.1	1339.3	1334.0	1376.7	1419.4	1499.4	1499.4
30°	10052.9	8713.6	5581.4	2427.9	1323.3	1227.3	1205.9	1237.9	1280.6	1296.6	1291.3
32.5°	10250.4	8585.6	4861.1	1814.2	1168.6	1120.6	1120.6	1120.6	1115.2	1136.6	1141.9
35°	10682.6	8606.9	4226.1	1403.4	1067.2	1029.8	1013.8	992.5	981.8	992.5	997.8
37.5°	11152.1	8596.2	3569.8	1195.3	992.5	960.5	923.1	891.1	885.8	896.4	880.4
40°	11360.3	8697.6	2961.5	1072.5	923.1	885.8	827.1	800.4	805.7	816.4	805.7
42.5°	11643.1	8729.6	2566.6	976.5	859.1	800.4	763.0	731.0	725.7	741.7	736.4
45°	11637.7	8548.2	2150.4	923.1	800.4	736.4	688.3	661.7	661.7	672.3	677.7
47.5°	11979.2	8521.5	1846.2	875.1	757.7	693.7	635.0	613.6	608.3	608.3	597.6
50°	12774.3	8895.0	1611.5	821.7	704.3	645.7	597.6	570.9	549.6	538.9	533.6
52.5°	14327.0	10058.3	1430.0	757.7	645.7	597.6	554.9	533.6	506.9	480.2	474.9
54°	15831.8	11258.9	1419.4	704.3	597.6	565.6	528.3	517.6	485.6	448.2	437.5
55°	16509.4	11957.9	1456.7	661.7	565.6	544.3	512.3	501.6	469.6	426.9	421.5
57.5°	17069.7	12230.0	1435.4	549.6	512.3	506.9	480.2	464.2	426.9	368.2	357.5
60°	13740.1	9247.2	1029.8	485.6	469.6	458.9	437.5	426.9	378.9	314.8	309.5
62.5°	8681.6	5319.9	656.3	426.9	410.9	394.9	368.2	357.5	314.8	250.8	234.8
65°	3697.8	2203.7	442.9	378.9	352.2	325.5	304.1	288.1	250.8	186.8	181.4
67.5°	960.5	784.4	368.2	330.8	293.5	256.1	240.1	213.4	170.8	128.1	122.7
70°	432.2	394.9	309.5	277.5	234.8	197.4	176.1	149.4	112.1	85.4	80.0
72.5°	256.1	250.8	234.8	208.1	176.1	149.4	128.1	101.4	74.7	48.0	48.0
75°	160.1	154.7	160.1	144.1	122.7	112.1	96.0	69.4	42.7	21.3	21.3
77.5°	96.0	96.0	96.0	90.7	85.4	85.4	69.4	42.7	21.3	5.3	5.3
80°	74.7	74.7	80.0	74.7	74.7	74.7	58.7	32.0	10.7	0.0	0.0
82.5°	74.7	80.0	90.7	85.4	74.7	64.0	53.4	32.0	10.7	0.0	0.0
85°	21.3	16.0	26.7	37.4	53.4	48.0	37.4	26.7	10.7	0.0	0.0
87.5°	10.7	10.7	10.7	10.7	5.3	5.3	5.3	5.3	5.3	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)