

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: P647054

Luminaire Tested: **GALN-SA7C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32436.6 lumens
Efficiency: N/A
Efficacy: 86.0 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

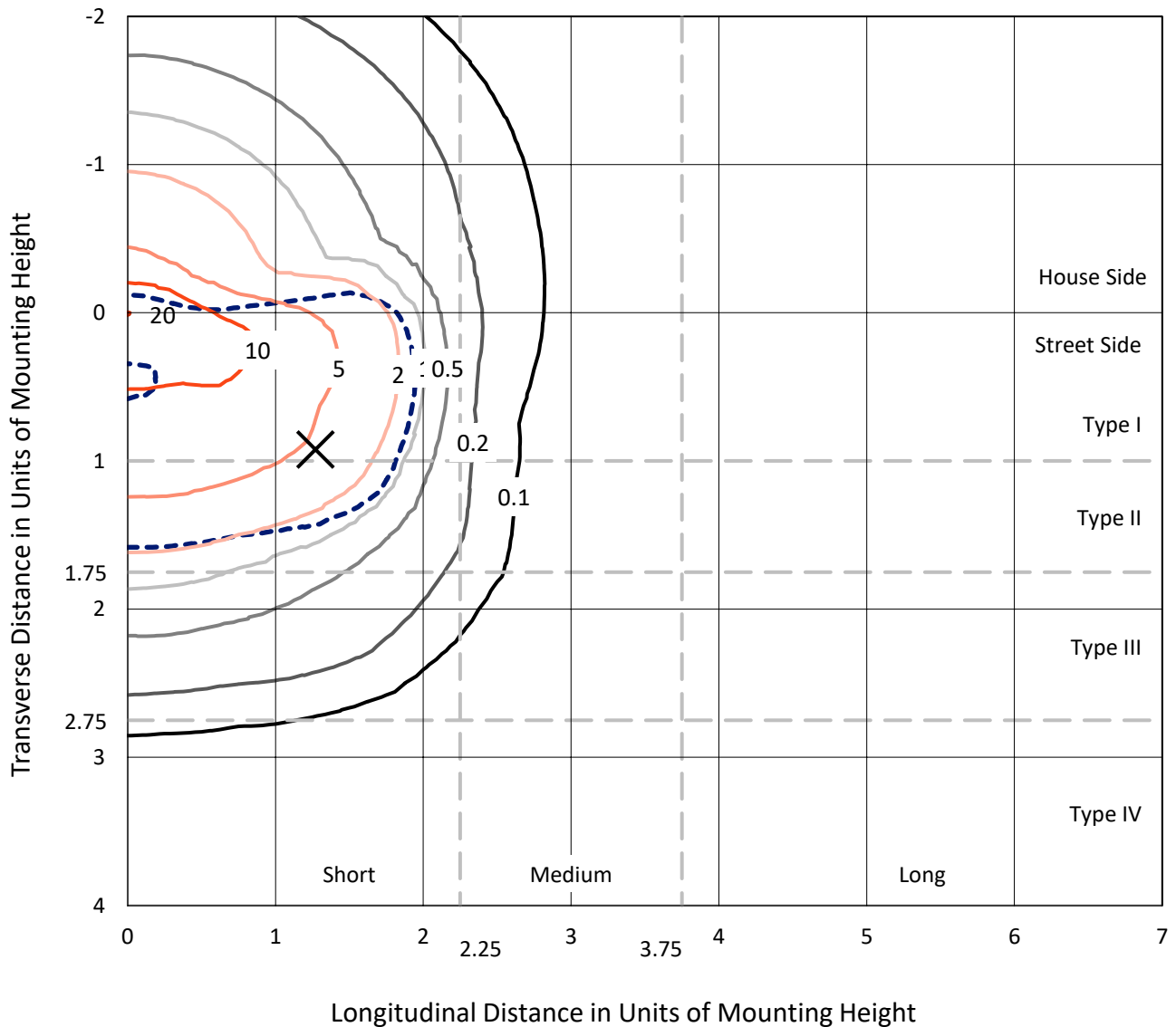
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

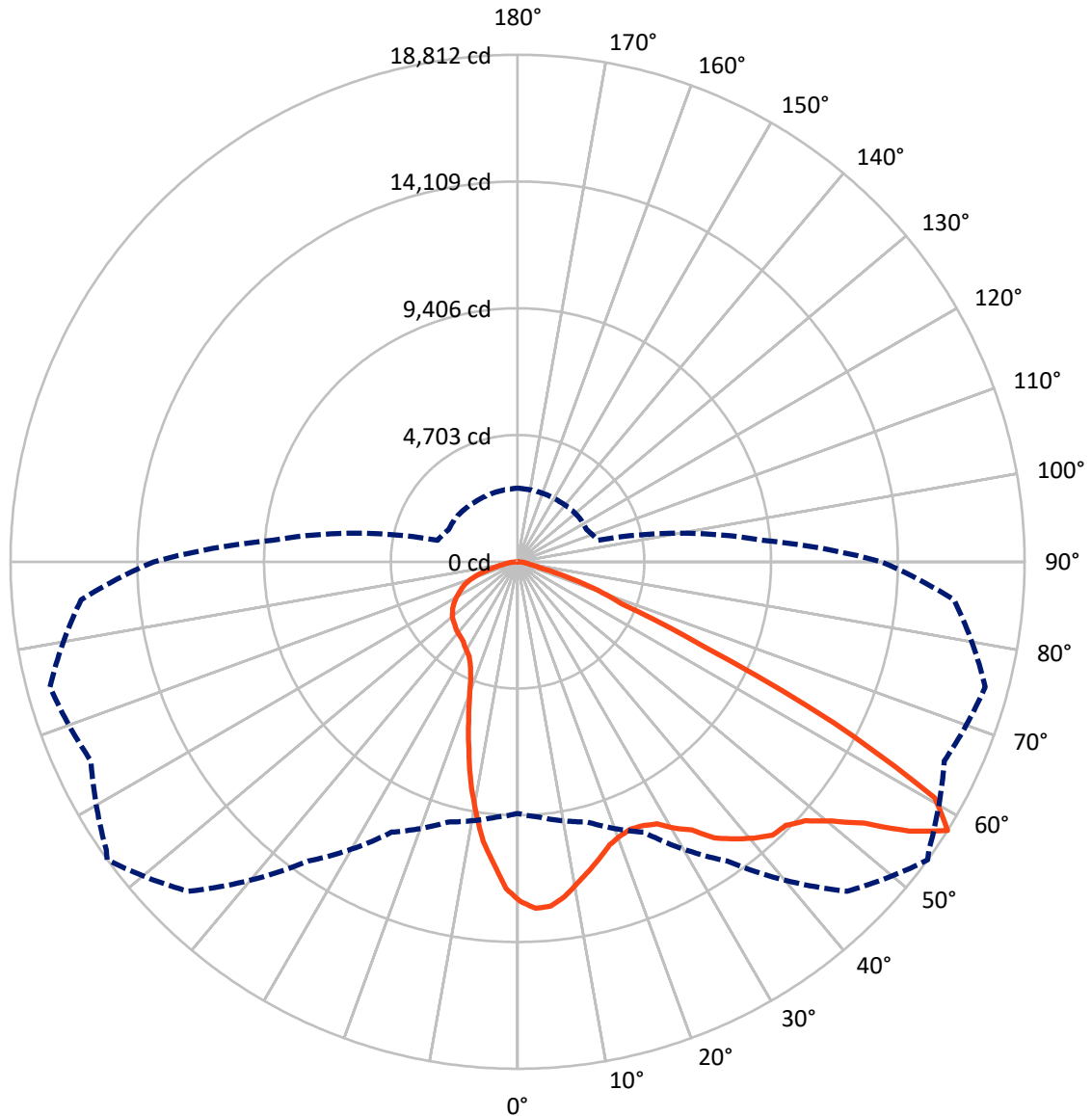
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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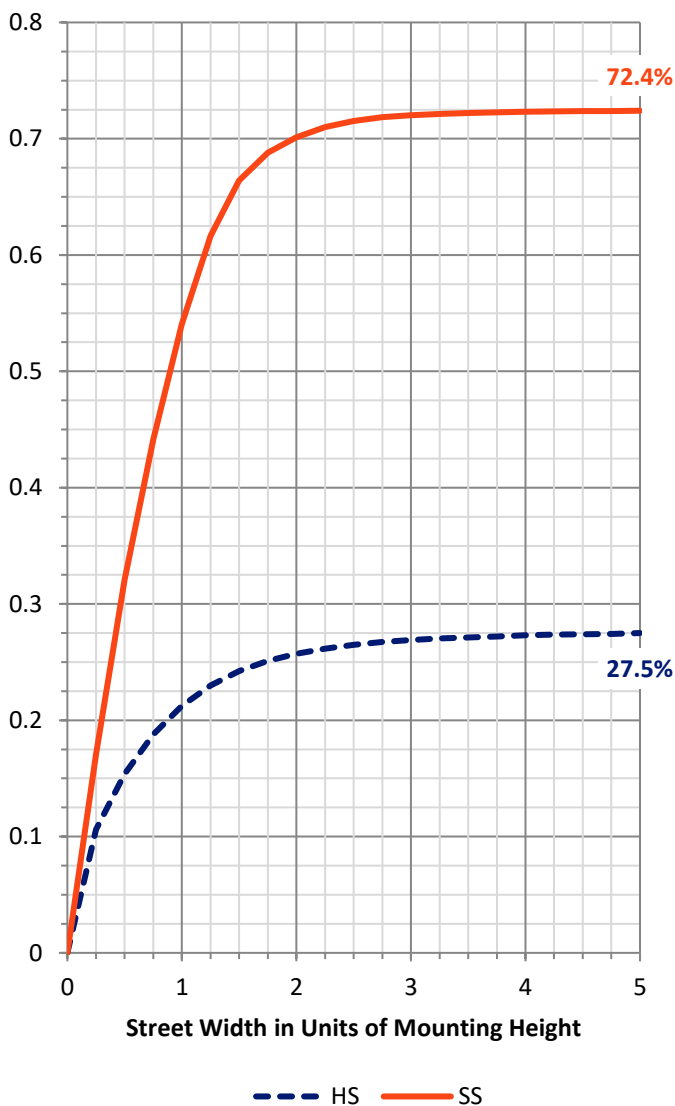
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8973.8	0.0	8973.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23462.8	0.0	23462.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	32436.6	0.0	32436.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.3	3.4
10°-20°	2517.5	7.8
20°-30°	3537.1	10.9
30°-40°	4944.9	15.2
40°-50°	6694.4	20.6
50°-60°	8154.1	25.1
60°-70°	4247.0	13.1
70°-80°	1088.2	3.4
80°-90°	166.0	0.5
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°	32436.6	100.0
0°-180°	32436.6	100.0

Coefficient of Utilization



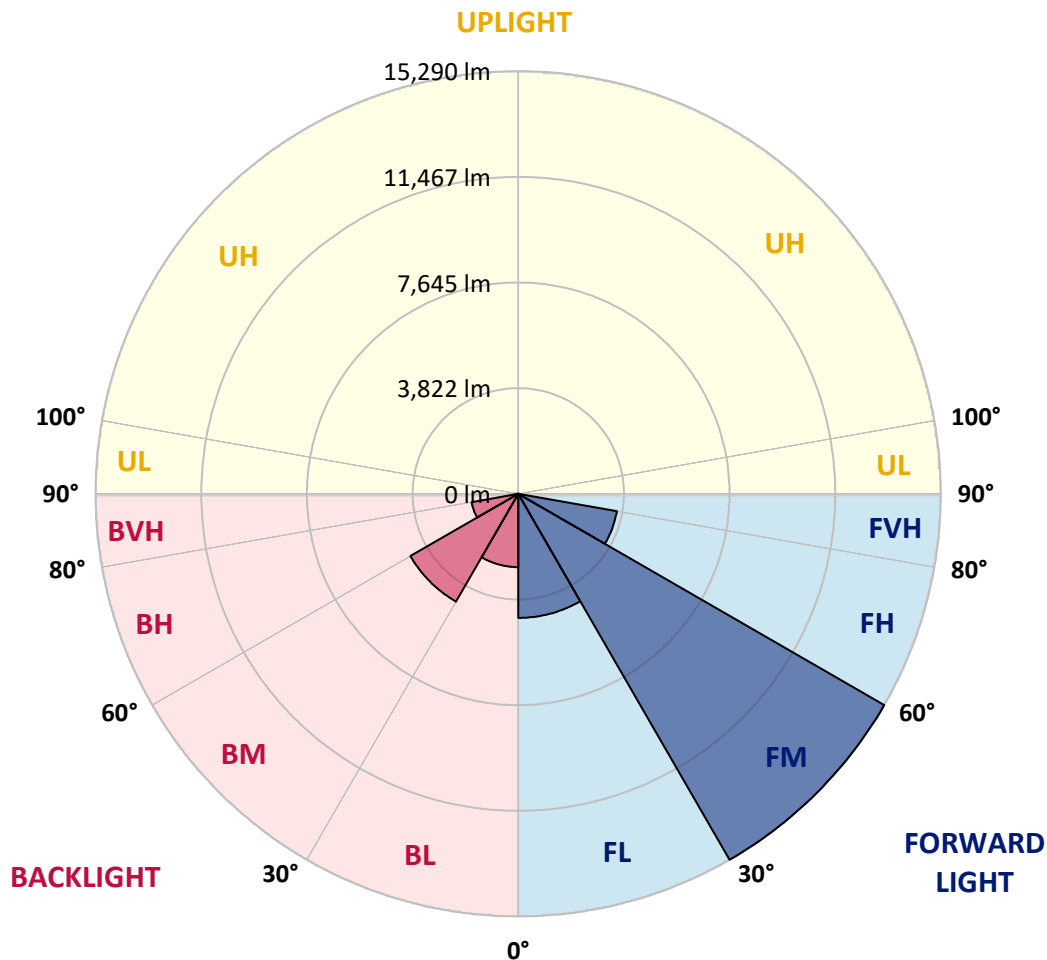
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4489.7	13.8			
FM (30°-60°)	15289.6	47.1			
FH (60°-80°)	3620.8	11.2			G2/5000
FVH (80°-90°)	62.7	0.2			G1/100
BL (0°-30°)	2652.2	8.2	B4/5000		
BM (30°-60°)	4503.9	13.9	B3/5000		
BH (60°-80°)	1714.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	103.3	0.3			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°	54°	55°	65°	75°	85°
0°	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7
2.5°	12966.2	12916.2	12924.6	12991.3	12907.9	12874.6	12874.6	12711.9	12724.5	12611.9	12582.7
5°	12666.1	12549.4	12628.5	12728.6	12745.3	12778.6	12832.8	12791.2	12674.4	12553.5	12357.5
7.5°	11882.3	11986.5	12015.7	12086.5	12236.6	12374.2	12545.1	12428.5	12424.3	12303.4	12186.6
10°	11194.3	11131.8	11290.2	11394.5	11644.6	11874.0	12136.6	12124.1	12186.6	12049.0	11848.9
12.5°	10510.6	10460.6	10535.6	10773.3	11123.5	11457.0	11769.7	11653.0	11986.5	11961.5	11532.0
15°	9785.2	9822.7	9931.1	10152.1	10610.7	11010.9	11407.0	11411.1	11707.2	11807.2	11231.9
17.5°	9276.5	9234.9	9372.4	9701.8	10110.3	10589.8	11040.1	11131.8	11586.3	11644.6	11140.1
20°	8897.2	8955.5	9134.8	9301.5	9772.6	10352.2	10860.8	10894.2	11561.2	11719.7	10994.3
22.5°	8805.4	8772.0	8830.4	9101.4	9489.2	10118.7	10764.9	10890.0	11557.1	11694.7	10719.0
25°	8709.5	8817.9	8813.8	9084.8	9368.2	9931.1	10844.2	10981.7	11778.0	11823.9	10756.6
27.5°	8926.3	8913.8	9030.5	9051.4	9401.6	9981.1	11010.9	11115.2	12145.0	12107.5	10785.7
30°	9143.1	9080.5	9151.5	9397.4	9560.0	10268.8	11469.5	11461.2	12620.2	12595.2	10877.5
32.5°	9409.9	9380.7	9426.6	9643.4	9918.6	10652.3	11857.3	12103.2	13103.8	13262.3	11194.3
35°	9460.0	9580.9	9689.2	9981.1	10373.0	11273.6	12586.9	12791.2	13662.6	14158.7	11798.9
37.5°	9776.9	9822.7	10077.0	10594.0	10952.5	12103.2	13049.6	13178.9	14171.2	14734.0	12436.8
40°	10114.6	10168.7	10552.3	11094.3	11586.3	12645.2	13483.3	13524.9	14333.8	15175.9	12853.7
42.5°	10573.2	10623.2	11002.6	11682.1	12340.9	13108.0	13866.9	13912.7	14321.3	15684.6	13516.6
45°	11048.4	11169.3	11615.4	12386.7	12978.8	13650.0	13954.4	14142.0	14438.0	16139.0	14054.5
47.5°	11715.5	11828.1	12195.0	12949.6	13641.7	14125.3	14358.8	14542.3	14717.3	16535.2	14400.5
50°	12424.3	12445.1	12891.2	13574.9	14083.6	14663.2	15113.4	15175.9	15084.3	16993.8	14988.3
52.5°	12945.4	13012.1	13358.2	14025.3	14784.1	15497.0	16114.1	16180.8	16001.5	17164.7	15188.5
55°	12082.4	12044.9	12607.7	13495.8	15255.2	16739.4	17635.8	17685.9	16668.5	17694.2	15843.1
57.5°	9339.1	9518.3	9997.8	11069.3	13554.1	17289.7	18811.5	18632.3	17469.0	17961.0	16259.9
60°	6787.5	6745.8	7066.8	7784.0	10214.5	14900.8	17785.9	17969.3	16814.5	16189.1	13408.2
62.5°	5528.4	5470.0	5495.0	5520.1	6591.5	9889.4	13166.4	13162.2	12949.6	11636.3	9043.0
65°	4419.4	4557.0	4569.4	4757.1	4894.7	5907.8	7629.7	8038.3	7000.1	5741.0	4165.0
67.5°	3331.2	3281.2	3447.9	4115.1	4373.5	4265.1	4165.0	4210.9	2993.5	2159.7	2034.5
70°	1963.7	1942.9	2143.0	2868.4	3602.2	3389.6	3139.4	3143.6	2055.5	1509.2	1680.2
72.5°	1075.7	1071.5	1113.2	1455.0	2047.1	2126.3	1884.5	1942.9	1225.8	1221.6	1313.3
75°	600.4	587.9	575.3	642.1	738.0	779.6	796.3	804.7	842.2	942.3	979.8
77.5°	221.0	212.7	212.7	246.0	312.7	391.9	496.1	504.5	596.2	683.7	721.3
80°	75.0	83.4	112.6	154.3	208.4	279.4	337.7	346.0	421.1	479.4	492.0
82.5°	45.9	50.0	75.0	108.4	150.1	196.0	250.2	254.3	312.7	350.2	366.9
85°	20.8	25.0	41.7	66.7	95.9	129.3	133.4	133.4	129.3	133.4	125.0
87.5°	0.0	0.0	8.3	8.3	8.3	12.5	16.7	12.5	20.8	25.0	25.0
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°	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7	12607.7
2.5°	12495.1	12449.3	12307.5	12182.5	12145.0	11978.2	11732.2	11761.4	11582.1	11665.4	11577.9
5°	12324.2	12169.9	11807.2	11653.0	11248.6	11065.1	10940.0	10627.3	10481.4	10452.3	10327.1
7.5°	11886.4	11790.6	11336.1	10919.2	10489.8	10122.9	9651.7	9330.7	9101.4	9038.9	8855.4
10°	11540.4	11327.7	10698.2	10064.5	9451.6	8813.8	8200.8	7721.4	7487.9	7216.9	7125.2
12.5°	11198.5	10877.5	10026.9	9214.0	8421.8	7617.2	6875.1	6291.3	5782.7	5661.8	5620.1
15°	10985.9	10427.2	9426.6	8446.8	7321.1	6270.5	5528.4	5144.8	4832.1	4702.9	4794.6
17.5°	10706.6	10056.1	8851.3	7546.3	6308.0	5340.8	4719.5	4481.9	4369.4	4381.8	4344.3
20°	10356.3	9705.9	8096.6	6729.1	5403.3	4632.0	4277.6	4190.1	4206.7	4236.0	4223.4
22.5°	10106.2	9280.7	7550.5	5895.3	4669.5	4240.1	4094.2	4031.7	4085.9	4110.8	4090.0
25°	9914.4	8918.0	6887.6	5157.3	4244.3	4019.1	3952.4	3948.3	4031.7	4065.0	4044.1
27.5°	9739.3	8580.3	6228.8	4594.5	3960.7	3848.2	3827.3	3877.3	3931.6	3965.0	3994.1
30°	9635.0	8321.7	5611.8	4123.4	3819.0	3764.8	3727.3	3773.1	3802.3	3835.7	3819.0
32.5°	9735.1	8138.3	5015.6	3856.5	3702.3	3648.1	3698.1	3668.9	3718.9	3748.1	3702.3
35°	10047.8	7975.7	4590.3	3714.8	3568.8	3589.7	3598.0	3585.5	3606.3	3581.4	3635.5
37.5°	10356.3	7917.4	4198.4	3593.9	3506.4	3506.4	3498.0	3473.0	3514.7	3506.4	3531.3
40°	10748.2	7954.9	3864.9	3464.6	3447.9	3439.6	3406.3	3402.1	3385.4	3389.6	3397.9
42.5°	11090.1	8038.3	3673.1	3381.2	3393.8	3410.4	3347.9	3297.8	3318.7	3277.0	3277.0
45°	11452.9	8113.3	3502.1	3322.9	3310.4	3306.2	3256.2	3227.0	3210.3	3214.4	3252.0
47.5°	12024.1	8221.7	3372.9	3243.7	3252.0	3189.5	3176.9	3139.4	3156.1	3181.1	3185.3
50°	12428.5	8451.0	3272.9	3152.0	3181.1	3139.4	3064.3	3047.7	3047.7	3089.4	3081.0
52.5°	12711.9	8772.0	3176.9	3051.9	3064.3	3031.0	3006.0	2968.5	2943.5	3001.9	3031.0
55°	13579.2	9305.7	3152.0	2968.5	2964.3	2930.9	2885.1	2847.6	2835.1	2843.4	2901.8
57.5°	13495.8	9138.9	3072.7	2822.6	2814.3	2768.4	2722.5	2710.0	2705.8	2714.2	2730.9
60°	10956.7	6749.9	2743.3	2655.8	2643.3	2635.0	2589.1	2539.0	2514.1	2539.0	2518.2
62.5°	7250.3	4519.4	2418.1	2455.6	2464.0	2443.2	2368.1	2318.1	2326.4	2355.6	2309.8
65°	3560.5	2655.8	2193.0	2293.1	2301.4	2243.1	2172.2	2113.8	2084.6	2109.6	2088.8
67.5°	2034.5	2030.4	2009.6	2113.8	2109.6	2051.2	1938.7	1888.7	1838.6	1846.9	1834.5
70°	1726.0	1759.4	1801.1	1863.6	1859.5	1792.8	1659.3	1621.8	1551.0	1542.6	1521.8
72.5°	1359.1	1417.5	1509.2	1555.1	1517.6	1434.2	1346.7	1284.1	1221.6	1184.1	1196.6
75°	1009.0	1092.4	1142.4	1171.5	1113.2	1067.3	996.4	921.4	846.3	813.0	800.5
77.5°	733.7	758.8	804.7	825.5	788.0	742.1	700.4	625.4	554.5	508.6	496.1
80°	512.8	529.5	562.8	562.8	562.8	542.0	487.8	412.7	366.9	325.2	316.9
82.5°	358.5	375.2	408.6	391.9	387.7	362.7	329.3	271.0	221.0	191.8	183.5
85°	125.0	137.6	166.8	200.1	212.7	208.4	187.6	150.1	116.7	95.9	87.5
87.5°	29.2	29.2	33.4	29.2	29.2	33.4	29.2	29.2	29.2	20.8	16.7
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)