

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: P647684

Luminaire Tested: **GALN-SA9D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33395.8 lumens
Efficiency: N/A
Efficacy: 60.5 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

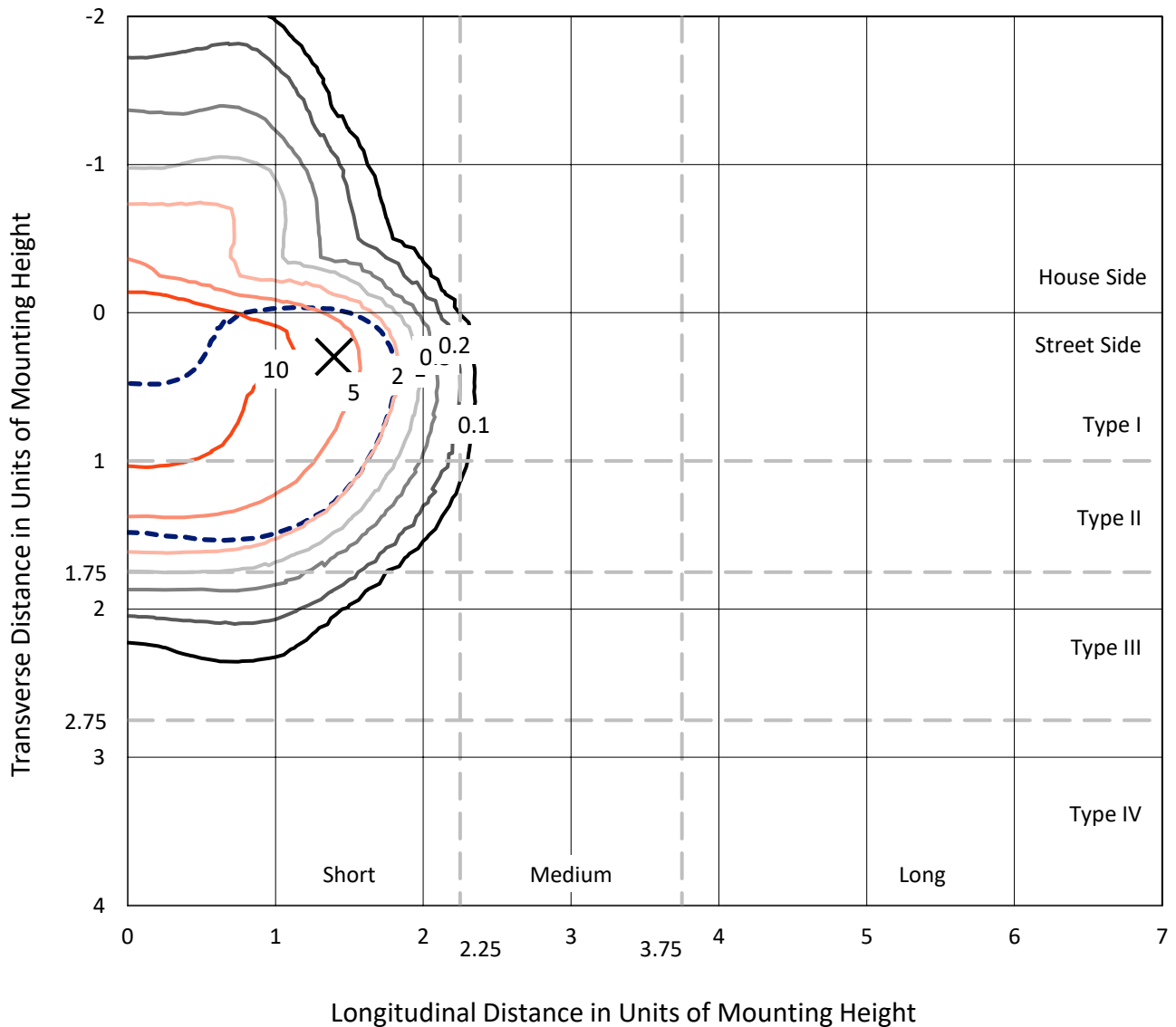
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

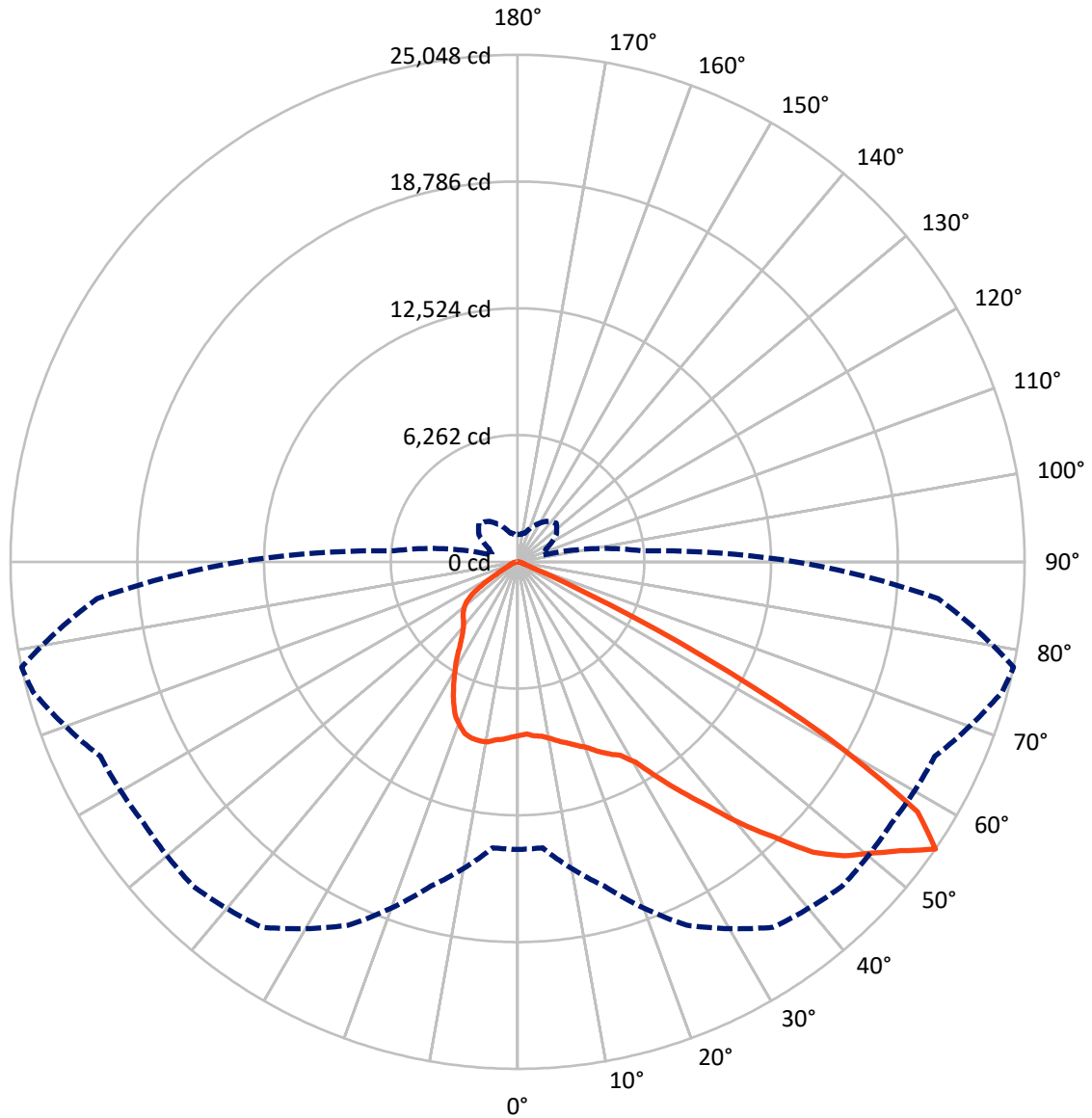
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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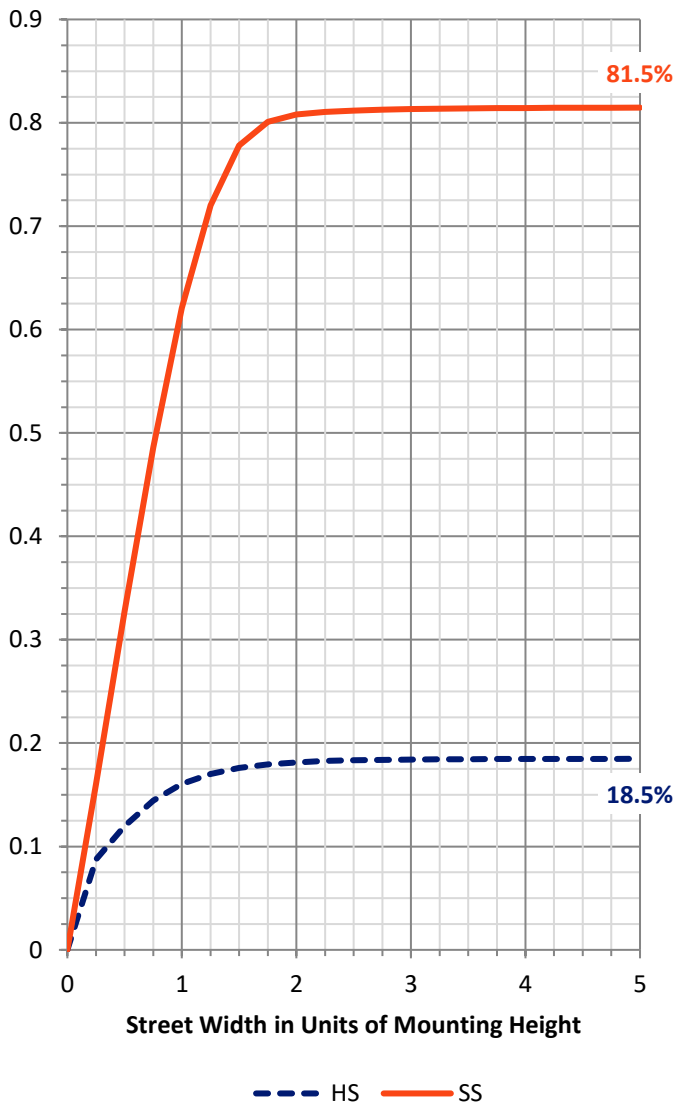
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6202.9	0.0	6202.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27192.9	0.0	27192.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	33395.8	0.0	33395.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.6	2.3
10°-20°	2026.2	6.1
20°-30°	3551.5	10.6
30°-40°	5856.0	17.5
40°-50°	8521.3	25.5
50°-60°	9655.5	28.9
60°-70°	2760.7	8.3
70°-80°	214.4	0.6
80°-90°	44.6	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°	33395.8	100.0
0°-180°	33395.8	100.0



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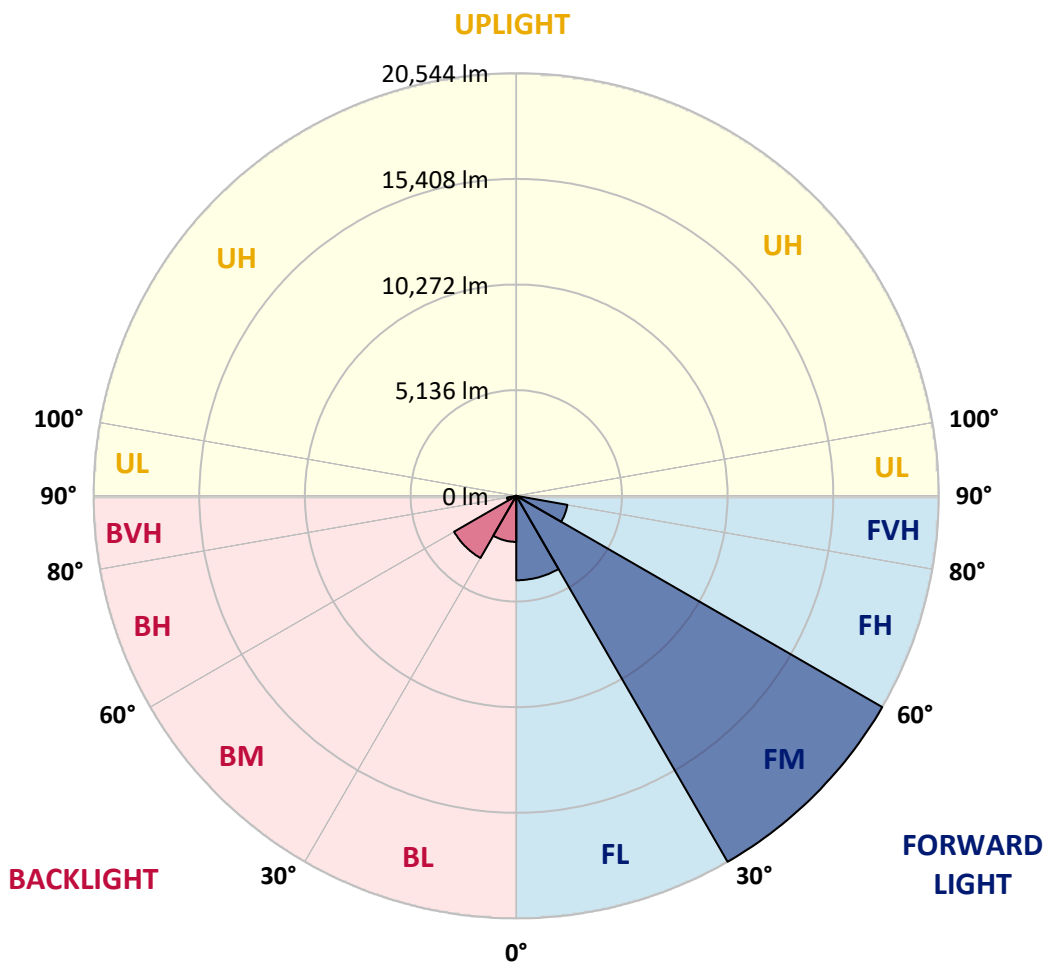
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4105.3	12.3			
FM (30°-60°)	20543.6	61.5			
FH (60°-80°)	2522.3	7.6			G2/5000
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	2238.0	6.7	B3/2500		
BM (30°-60°)	3489.2	10.4	B3/5000		
BH (60°-80°)	452.8	1.4	B1/500		G1/500
BVH (80°-90°)	22.9	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°	55°	65°	75°	78°	85°
0°	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1
2.5°	8072.6	8150.2	8162.1	8257.7	8251.7	8412.9	8460.7	8466.7	8574.1	8520.4	8657.7
5°	7845.7	7803.8	7786.0	7953.2	8000.9	8144.2	8263.6	8335.3	8556.2	8633.8	8777.1
7.5°	7642.7	7642.7	7654.6	7803.8	7786.0	7971.1	8096.5	8317.3	8639.8	8705.5	8878.7
10°	7445.6	7374.0	7463.6	7618.8	7750.1	7833.8	8096.5	8305.4	8681.6	8872.6	9111.5
12.5°	7344.1	7379.9	7391.9	7505.4	7648.7	7899.5	8042.7	8389.1	8980.1	9093.6	9350.4
15°	7983.0	7911.4	7738.2	7636.7	7756.1	7875.6	8233.8	8586.1	9135.4	9296.6	9583.2
17.5°	8723.4	8663.7	8520.4	8245.7	7977.0	8197.9	8478.6	8801.0	9302.6	9541.4	9965.3
20°	9690.6	9595.1	9451.8	8914.5	8681.6	8442.8	8741.3	9123.4	9577.2	9792.2	10228.0
22.5°	10843.1	10843.1	10520.6	9869.8	9386.1	9159.3	9284.7	9505.5	9881.8	10174.3	10604.2
25°	12043.2	12007.4	11714.8	11040.1	10222.1	9953.4	10096.7	10251.9	10353.5	10514.7	10801.3
27.5°	13416.5	13207.5	12837.3	12090.9	11368.5	10849.0	11004.3	10866.9	10741.5	10825.1	11237.1
30°	14347.9	14479.3	14007.6	13291.1	12610.4	12031.3	12061.1	11941.7	11368.5	11487.9	11732.7
32.5°	15315.2	15398.8	15136.1	14742.0	14061.3	13386.6	13141.8	13040.3	12610.4	12664.2	12425.3
35°	16121.3	16282.5	16049.6	15876.4	15679.4	15136.1	14461.4	14789.8	14097.1	13965.8	13344.8
37.5°	16861.7	16813.9	17088.5	16909.4	16867.6	16485.5	15745.1	15810.8	15345.1	15315.2	14598.7
40°	17524.4	17536.4	17912.5	17996.1	17828.9	17148.2	16073.5	16592.9	16969.1	17005.0	16085.4
42.5°	18073.8	18234.9	18557.3	19232.0	18981.3	17846.8	16413.8	16981.1	18378.3	18599.1	17494.6
45°	18551.4	18879.8	19279.8	19882.9	19739.6	18838.0	17261.7	17781.1	19882.9	20462.1	18820.1
47.5°	18581.2	19011.2	19447.0	20342.7	20521.7	19369.4	18139.4	19046.9	21077.0	21704.0	19787.3
50°	18461.8	18688.7	19560.4	20533.7	20939.7	20235.1	19369.4	20109.8	22235.4	22629.5	20277.0
52.5°	17046.8	17219.9	18969.3	20712.9	21692.1	21214.4	20999.4	21590.5	23417.7	23710.2	20736.7
55°	14210.6	14180.8	16587.0	19811.2	22038.3	22665.3	22534.0	22742.9	24784.9	25047.6	20850.2
57.5°	9720.6	10263.9	12341.7	16497.4	19918.7	22325.0	22462.3	22116.0	23190.7	23292.2	18175.2
60°	5242.4	5469.3	7141.1	11010.2	15165.9	18193.2	18551.4	17924.4	17840.9	17554.2	12974.6
62.5°	2083.8	2197.3	3146.6	5451.4	8263.6	11058.0	11828.2	11571.5	11022.1	10269.8	6717.2
65°	991.1	1062.8	1564.4	2549.5	3666.1	4609.5	5379.8	5618.6	4143.8	3731.8	2215.2
67.5°	674.7	728.4	1140.4	1456.8	1307.6	1367.4	1779.3	1653.9	973.3	830.0	615.0
70°	513.5	549.4	913.5	991.1	585.1	412.0	459.8	429.9	400.0	406.0	400.0
72.5°	364.3	394.1	668.8	585.1	256.7	191.1	244.8	292.6	292.6	292.6	286.6
75°	220.9	250.8	388.1	226.9	101.5	101.5	155.3	197.0	209.0	214.9	203.0
77.5°	113.5	143.3	131.4	65.7	65.7	77.6	113.5	137.3	149.2	149.2	143.3
80°	23.9	23.9	23.9	35.9	65.7	83.6	113.5	125.4	143.3	143.3	131.4
82.5°	0.0	6.0	17.9	35.9	59.7	77.6	107.5	125.4	143.3	149.2	137.3
85°	0.0	6.0	12.0	23.9	41.8	47.8	41.8	35.9	35.9	35.9	35.9
87.5°	0.0	0.0	6.0	6.0	6.0	12.0	12.0	12.0	12.0	12.0	12.0
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°	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1	8586.1
2.5°	8669.7	8687.5	8657.7	8651.8	8627.9	8699.5	8526.3	8484.6	8592.0	8490.5	8514.4
5°	8783.1	8824.9	8771.2	8681.6	8550.2	8347.2	8174.1	7947.2	7839.7	7762.1	7750.1
7.5°	8866.7	8896.5	8842.8	8556.2	8162.1	7648.7	7266.5	6985.8	6765.0	6699.3	6591.8
10°	9207.1	9213.0	8944.3	8311.4	7541.2	6866.4	6281.3	5851.4	5630.5	5493.1	5433.5
12.5°	9433.9	9422.0	8878.7	7827.7	6800.7	5905.2	5236.4	4716.9	4513.9	4448.3	4406.5
15°	9720.6	9654.9	8723.4	7332.2	5845.5	4878.2	4275.1	3916.9	3898.9	3857.1	3898.9
17.5°	9947.4	9762.3	8496.5	6430.6	4931.9	4018.4	3624.3	3648.2	3695.9	3737.7	3743.7
20°	10317.6	9935.5	7977.0	5642.5	4084.0	3445.2	3439.2	3546.7	3666.1	3713.8	3761.6
22.5°	10598.2	10007.1	7421.7	4800.6	3391.4	3212.3	3313.8	3475.0	3564.6	3612.4	3684.0
25°	10699.8	9810.1	6681.3	3958.7	3057.1	3104.8	3260.1	3367.5	3481.0	3534.7	3504.9
27.5°	10801.3	9708.6	5797.6	3260.1	2877.9	3033.2	3164.6	3272.0	3307.9	3379.5	3427.3
30°	11046.0	9356.3	5003.5	2818.3	2788.4	2985.4	3080.9	3116.8	3212.3	3254.1	3254.1
32.5°	11243.1	9219.0	4161.6	2609.3	2776.4	3009.3	3021.2	3021.2	3033.2	3003.4	2991.4
35°	11649.1	8747.3	3409.3	2483.8	2770.5	3015.3	3045.2	2943.6	2668.9	2561.5	2531.6
37.5°	12150.7	8442.8	2854.0	2454.0	2812.3	3086.9	3134.7	2752.6	2394.3	2221.1	2191.3
40°	12759.7	8227.8	2489.9	2442.1	2907.8	3254.1	3110.8	2603.3	2137.6	1886.8	1874.8
42.5°	13470.2	8030.8	2245.0	2436.1	3027.2	3427.3	3086.9	2477.9	1874.8	1707.6	1731.5
45°	14037.5	7923.3	2077.8	2394.3	3069.0	3528.7	3104.8	2257.0	1767.4	1659.9	1671.9
47.5°	14479.3	7696.4	1940.5	2322.7	3063.0	3564.6	2943.6	2167.4	1713.6	1743.5	1773.3
50°	14491.2	7391.9	1767.4	2167.4	2973.4	3498.9	2758.5	2083.8	1701.7	1827.1	1886.8
52.5°	14330.0	6962.0	1582.3	1946.5	2764.5	3272.0	2591.3	2048.0	1648.0	1636.0	1707.6
55°	13756.8	6155.9	1271.8	1576.3	2334.6	2698.8	2442.1	1982.3	1486.8	1349.4	1361.3
57.5°	11117.7	4412.4	937.4	1128.5	1653.9	1976.4	2203.2	1952.5	1337.4	1146.4	1152.3
60°	6884.4	2501.8	686.6	770.2	1021.0	1200.1	1785.3	1815.2	1194.2	967.2	955.3
62.5°	3534.7	1236.0	531.4	543.3	626.9	704.5	1224.0	1522.5	1080.7	919.5	919.5
65°	1182.3	609.0	465.7	418.0	418.0	435.9	740.4	1056.8	913.5	770.2	770.2
67.5°	507.5	453.7	406.0	364.3	334.3	316.5	418.0	615.0	680.7	585.1	561.3
70°	394.1	382.1	352.3	304.5	262.7	238.8	244.8	316.5	388.1	376.2	364.3
72.5°	292.6	292.6	280.6	238.8	203.0	173.1	161.2	167.2	185.1	191.1	197.0
75°	203.0	209.0	209.0	185.1	149.2	125.4	107.5	89.6	71.6	59.7	53.7
77.5°	137.3	143.3	155.3	137.3	113.5	83.6	65.7	47.8	29.8	12.0	12.0
80°	119.4	137.3	149.2	137.3	119.4	89.6	65.7	35.9	17.9	0.0	0.0
82.5°	125.4	137.3	155.3	131.4	113.5	83.6	65.7	41.8	17.9	6.0	0.0
85°	29.8	29.8	35.9	41.8	53.7	59.7	47.8	29.8	17.9	6.0	0.0
87.5°	12.0	12.0	12.0	12.0	12.0	6.0	6.0	6.0	6.0	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)