

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P641190

Luminaire Tested: GWS-SA5F-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41976.4 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

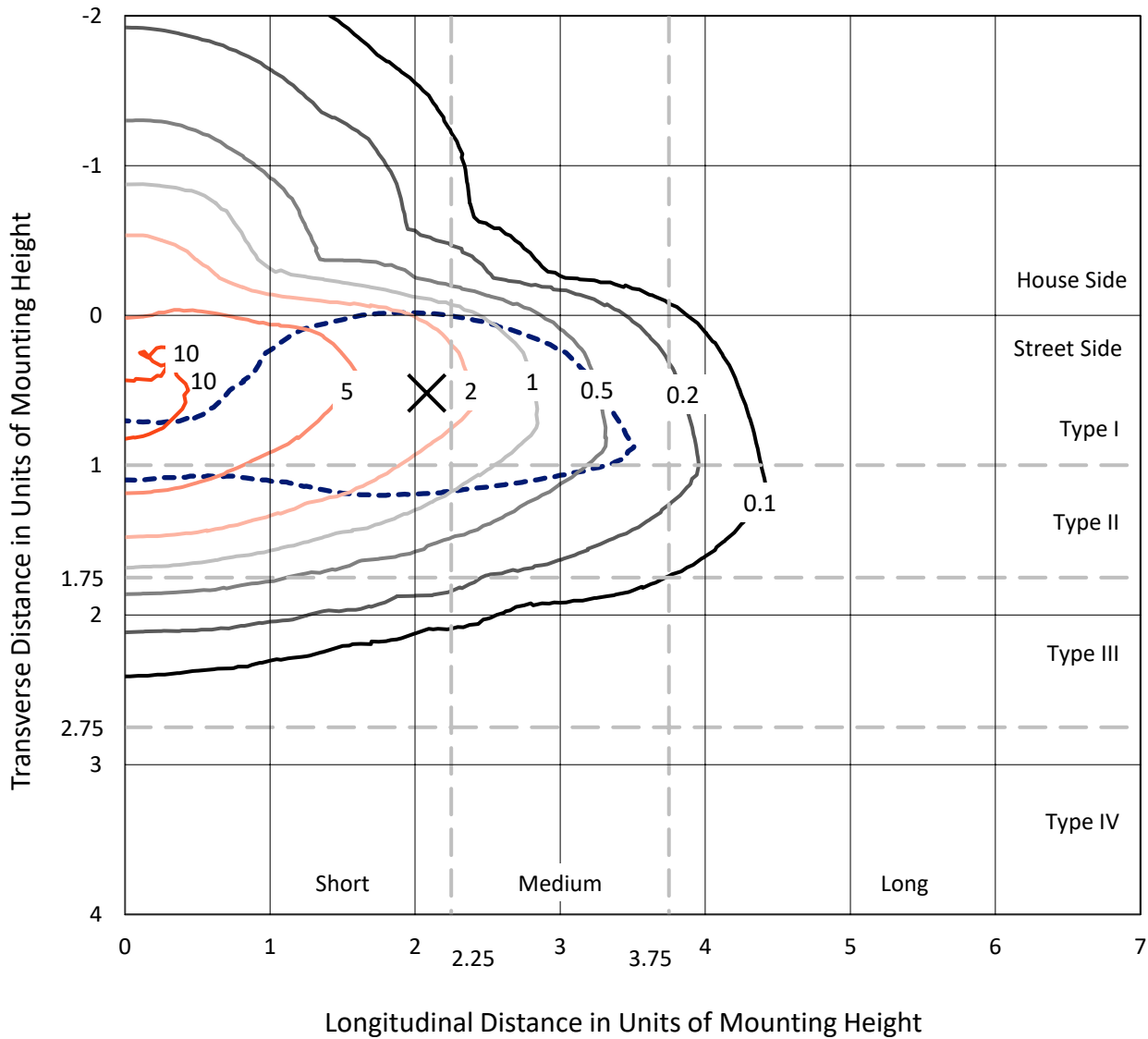
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

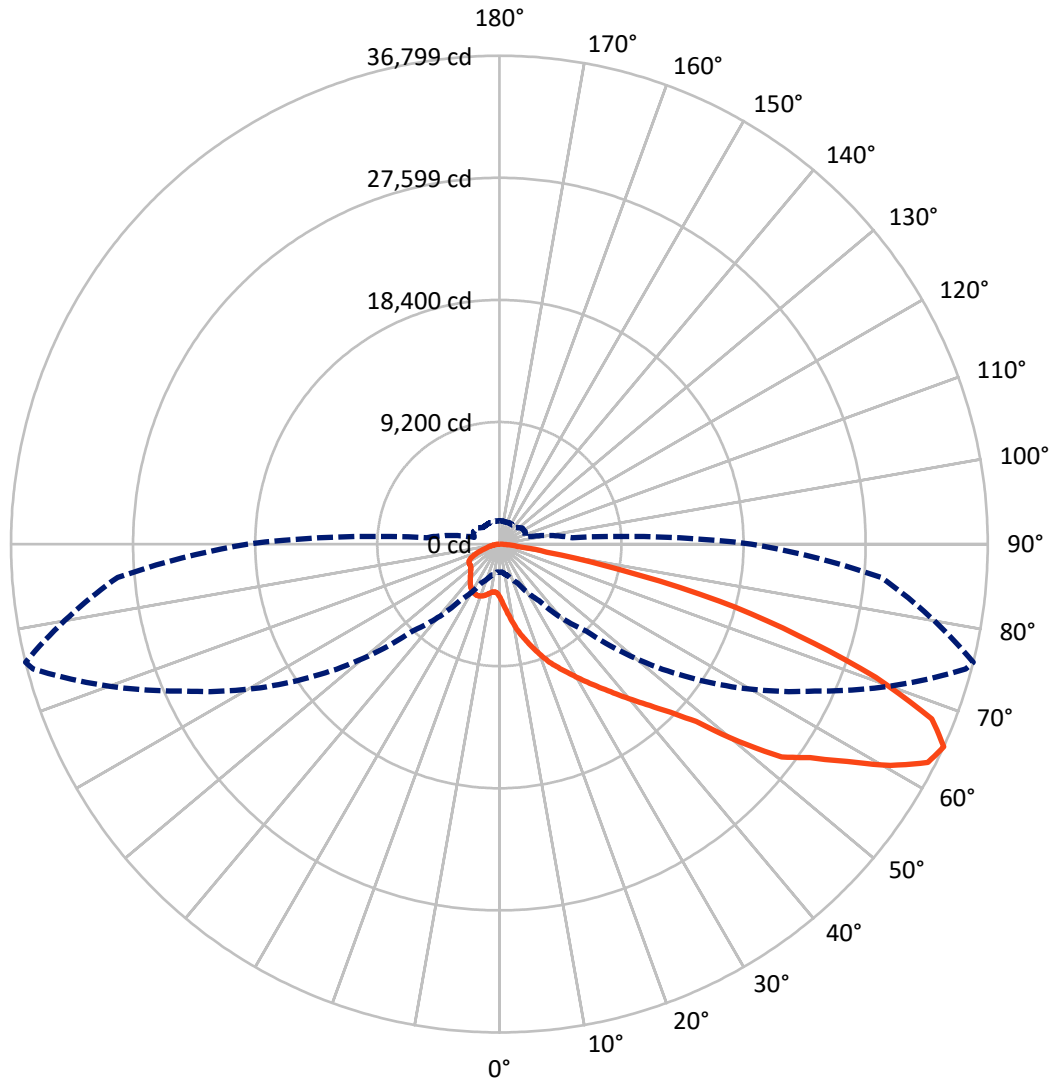
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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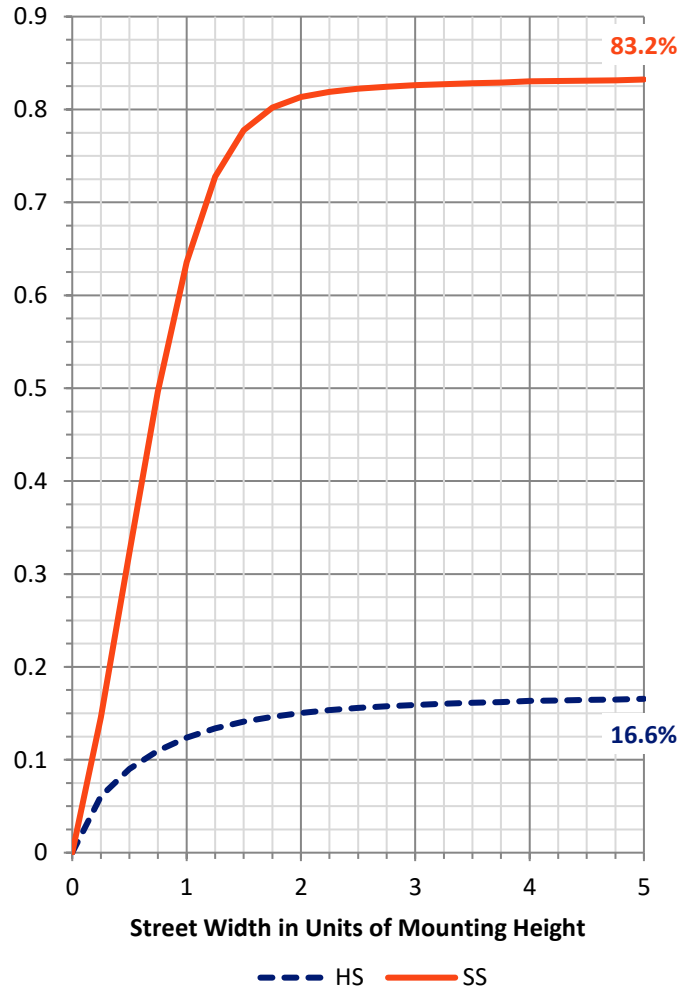
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7016.4	0.0	7016.4
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	34960.0	0.0	34960.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	41976.4	0.0	41976.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.2	1.1
10°-20°	1798.8	4.3
20°-30°	3505.5	8.4
30°-40°	5862.8	14.0
40°-50°	8394.4	20.0
50°-60°	9937.8	23.7
60°-70°	8263.3	19.7
70°-80°	3381.6	8.1
80°-90°	360.0	0.9
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°	41976.4	100.0
0°-180°	41976.4	100.0

Coefficient of Utilization



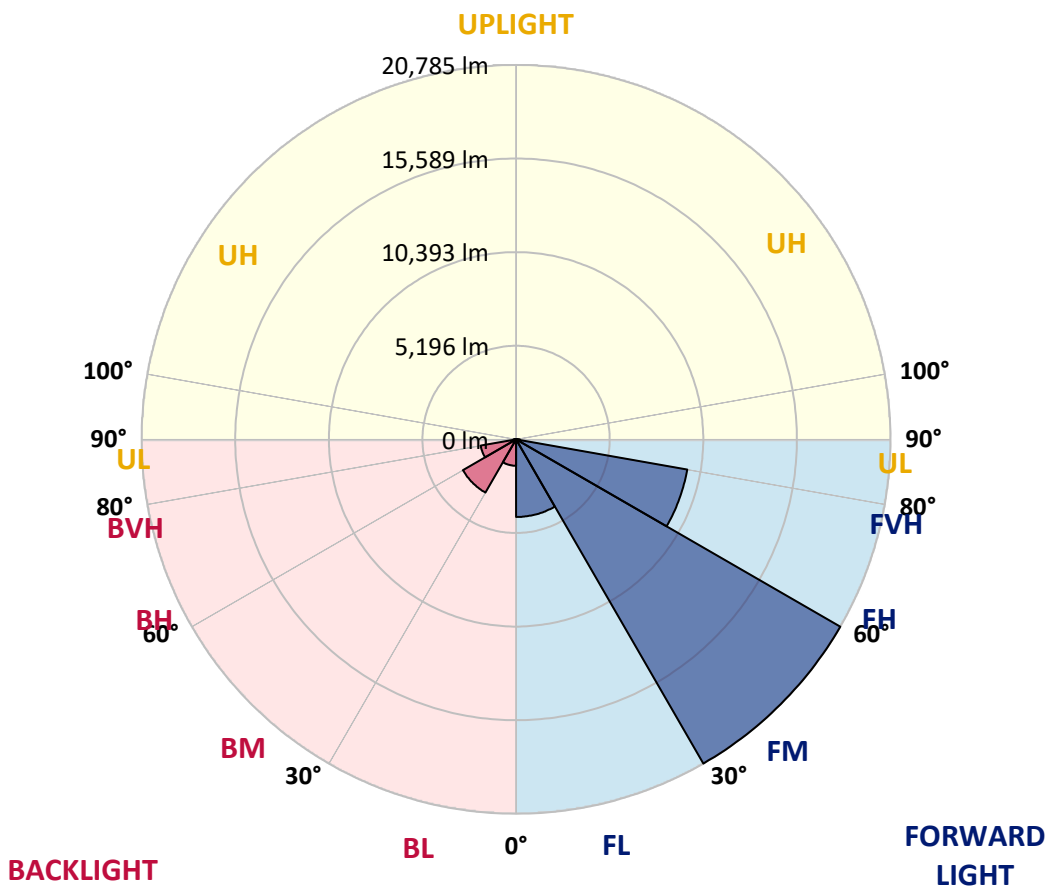
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4308.7	10.3			
FM (30°-60°)	20785.1	49.5			
FH (60°-80°)	9651.4	23.0			G4/12000
FVH (80°-90°)	214.7	0.5			G2/225
BL (0°-30°)	1467.8	3.5	B3/2500		
BM (30°-60°)	3409.8	8.1	B3/5000		
BH (60°-80°)	1993.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	145.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0
2.5°	5571.5	5592.2	5524.3	5500.7	5341.3	5125.9	4945.9	4674.4	4423.6	4385.2	4160.9
5°	7076.5	6988.0	6911.3	6861.1	6639.8	6394.8	6014.2	5503.6	4969.5	4904.6	4420.6
7.5°	7970.7	7955.9	7861.5	7832.0	7660.8	7415.9	7023.4	6388.9	5612.8	5506.6	4771.8
10°	8687.8	8678.9	8631.7	8658.3	8501.9	8262.8	7882.1	7227.0	6318.1	6211.9	5164.3
12.5°	9313.4	9328.1	9319.3	9416.7	9337.0	9151.1	8755.6	8035.6	7023.4	6908.3	5642.3
15°	9770.8	9782.6	9826.9	10039.3	10083.6	10045.2	9643.9	8829.4	7719.8	7554.6	6135.1
17.5°	9900.6	9924.2	10030.5	10372.8	10611.8	10771.2	10473.1	9638.0	8404.5	8224.5	6636.8
20°	10074.7	10101.3	10207.5	10564.6	10915.8	11278.8	11225.6	10458.4	9095.0	8947.5	7144.4
22.5°	10880.4	10859.7	10812.5	10983.7	11234.5	11686.0	11818.8	11246.3	9809.2	9667.5	7705.1
25°	12432.6	12394.2	12093.2	11936.8	11854.2	12128.6	12364.7	11963.4	10505.6	10293.1	8227.4
27.5°	14144.2	14123.5	13739.9	13368.1	12860.5	12742.5	12881.2	12589.0	11181.4	10966.0	8681.9
30°	15764.3	15702.3	15301.0	14834.7	14156.0	13648.4	13444.8	13202.8	11922.1	11697.8	9213.1
32.5°	17213.2	17133.6	16661.4	16145.0	15433.8	14834.7	14226.8	13855.0	12760.2	12500.5	9756.0
35°	18402.5	18322.8	17838.9	17290.0	16507.9	16065.3	15233.1	14563.2	13613.0	13350.4	10396.4
37.5°	19323.2	19249.4	18744.8	18204.8	17523.1	17171.9	16448.9	15360.0	14595.7	14321.2	11075.1
40°	19839.6	19786.5	19382.2	18954.3	18381.8	18077.9	17753.3	16366.3	15696.4	15422.0	11874.9
42.5°	19996.0	19960.6	19677.3	19456.0	19069.4	18839.2	19025.2	17549.7	16870.9	16631.9	12774.9
45°	19603.6	19603.6	19520.9	19633.1	19650.8	19647.8	20300.0	18886.5	18314.0	18051.3	14043.9
47.5°	18600.2	18665.1	18786.1	19338.0	19919.3	20406.2	21790.3	20668.9	20170.2	19954.7	15841.0
50°	16764.7	16941.7	17354.9	18432.0	19668.5	20907.9	23200.8	23304.1	23779.2	23398.6	18485.1
52.5°	14076.3	14049.8	15103.3	16637.8	18523.5	20928.6	23977.0	25629.5	26907.3	26644.7	20450.5
55°	11187.3	11143.0	12125.7	14241.6	16767.6	20137.7	24443.2	26694.8	28642.5	28406.4	22218.2
57.5°	8566.8	8510.7	9384.2	11293.5	14288.8	18458.6	24354.7	27963.8	31029.9	30908.9	24620.3
60°	5896.1	5828.2	6645.7	8315.9	11355.5	15891.2	23374.9	28615.9	33824.5	33865.8	27190.6
62.5°	3541.2	3502.8	4096.0	5391.5	8168.4	12710.0	21082.0	28220.5	36049.5	36235.4	28843.2
65°	2136.5	2110.0	2458.2	3216.6	5182.0	9275.0	17546.7	26199.1	36371.2	36799.1	28881.5
67.5°	1555.2	1558.1	1658.5	1959.5	3021.8	5990.5	13167.4	22575.2	34695.0	35137.7	27060.8
70°	1351.6	1357.5	1410.6	1478.5	1826.7	3429.1	8560.9	17821.1	29740.3	30082.6	22696.2
72.5°	1201.1	1201.1	1236.5	1271.9	1428.3	2089.3	4585.9	12456.2	23472.3	23563.8	17322.4
75°	1056.5	1047.6	1065.3	1083.0	1239.4	1460.7	2231.0	8678.9	17337.2	17124.7	11196.1
77.5°	841.0	832.2	835.1	852.8	994.5	1044.7	1130.2	5421.0	9770.8	9221.9	4945.9
80°	599.1	593.2	625.6	669.9	734.8	640.4	708.2	2623.4	3874.7	3606.1	1918.2
82.5°	357.1	368.9	419.0	454.5	507.6	401.3	457.4	876.4	1372.2	1336.8	779.1
85°	50.2	53.1	150.5	174.1	218.4	156.4	242.0	395.4	548.9	587.3	274.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	20.7	70.8	156.4	159.4	67.9
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°	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0
2.5°	4045.8	3907.1	3709.4	3544.2	3405.5	3293.3	3198.9	3128.1	3107.4	3077.9	3077.9
5°	4193.4	3942.5	3588.4	3337.6	3193.0	3107.4	3048.4	3018.9	3004.1	2986.4	2977.6
7.5°	4397.0	4045.8	3567.8	3314.0	3201.8	3148.7	3110.4	3092.7	3080.9	3063.1	3063.1
10°	4677.4	4199.3	3632.7	3396.6	3308.1	3255.0	3210.7	3181.2	3154.6	3128.1	3122.2
12.5°	4981.3	4400.0	3750.7	3508.8	3414.3	3349.4	3287.4	3243.2	3210.7	3178.2	3169.4
15°	5317.7	4606.5	3877.6	3617.9	3499.9	3411.4	3337.6	3269.7	3225.5	3178.2	3172.3
17.5°	5648.2	4816.0	3983.9	3691.7	3541.2	3432.0	3325.8	3237.3	3181.2	3128.1	3113.3
20°	6043.7	5025.6	4057.6	3712.4	3532.4	3387.8	3260.9	3148.7	3086.8	3024.8	3015.9
22.5°	6406.6	5220.3	4093.1	3682.9	3464.5	3293.3	3145.8	3024.8	2956.9	2894.9	2883.1
25°	6757.8	5391.5	4078.3	3612.0	3361.2	3163.5	3010.0	2889.0	2824.1	2759.2	2741.5
27.5°	7097.2	5506.6	4019.3	3502.8	3231.4	3018.9	2871.3	2762.1	2706.1	2650.0	2626.4
30°	7430.6	5612.8	3927.8	3361.2	3066.1	2868.4	2747.4	2670.7	2614.6	2555.6	2537.9
32.5°	7767.1	5689.5	3789.1	3195.9	2897.9	2735.6	2661.8	2605.7	2546.7	2487.7	2470.0
35°	8106.4	5722.0	3620.9	3007.1	2756.2	2650.0	2623.4	2558.5	2478.8	2408.0	2384.4
37.5°	8510.7	5751.5	3411.4	2821.2	2632.3	2608.7	2602.8	2505.4	2411.0	2313.6	2287.0
40°	8997.6	5789.9	3195.9	2653.0	2532.0	2593.9	2570.3	2437.5	2248.7	2154.2	2124.7
42.5°	9593.7	5860.7	2971.7	2499.5	2458.2	2537.9	2511.3	2272.3	2145.4	2092.3	2077.5
45°	10470.2	6120.4	2747.4	2378.5	2402.1	2458.2	2416.9	2174.9	2124.7	2089.3	2071.6
47.5°	12031.3	6518.8	2552.6	2287.0	2357.9	2387.4	2228.0	2148.3	2110.0	2062.8	2042.1
50°	13654.3	6692.9	2396.2	2231.0	2307.7	2322.4	2124.7	2112.9	2086.4	2036.2	2015.5
52.5°	14752.1	6669.3	2301.8	2210.3	2266.4	2210.3	2077.5	2074.6	2056.9	1997.8	1974.2
55°	15991.5	6710.6	2260.5	2216.2	2248.7	2021.4	2018.5	2027.3	2018.5	1953.6	1941.8
57.5°	17664.7	6837.5	2239.8	2236.9	2236.9	1930.0	1962.4	1974.2	1956.5	1927.0	1918.2
60°	19273.0	6846.3	2201.5	2260.5	2228.0	1873.9	1897.5	1909.3	1888.6	1882.7	1879.8
62.5°	19878.0	6421.4	2115.9	2242.8	2192.6	1811.9	1829.6	1835.5	1814.9	1829.6	1826.7
65°	18977.9	5518.4	1974.2	2157.2	2083.4	1755.9	1744.0	1758.8	1723.4	1761.8	1764.7
67.5°	16850.3	4385.2	1758.8	1994.9	1930.0	1693.9	1670.3	1670.3	1611.3	1670.3	1667.3
70°	13586.4	3098.6	1443.0	1735.2	1761.8	1620.1	1608.3	1540.4	1446.0	1534.5	1525.7
72.5°	10299.0	2225.1	1136.1	1372.2	1516.8	1516.8	1519.8	1404.7	1295.5	1336.8	1301.4
75°	6524.7	1567.0	908.9	1050.6	1189.3	1330.9	1398.8	1186.3	1088.9	1071.2	1053.5
77.5°	2939.2	1029.9	708.2	805.6	844.0	1050.6	1277.8	1021.0	888.3	849.9	838.1
80°	1230.6	640.4	504.6	569.5	519.4	882.4	1127.3	793.8	652.2	599.1	560.7
82.5°	540.0	380.7	321.7	306.9	324.6	655.1	841.0	528.2	407.2	551.8	557.7
85°	227.2	200.7	165.3	150.5	132.8	250.8	395.4	206.6	253.8	144.6	118.0
87.5°	53.1	59.0	44.3	29.5	17.7	3.0	0.0	0.0	0.0	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)