

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: P639214

Luminaire Tested: GWS-SA5B-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17524.4 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

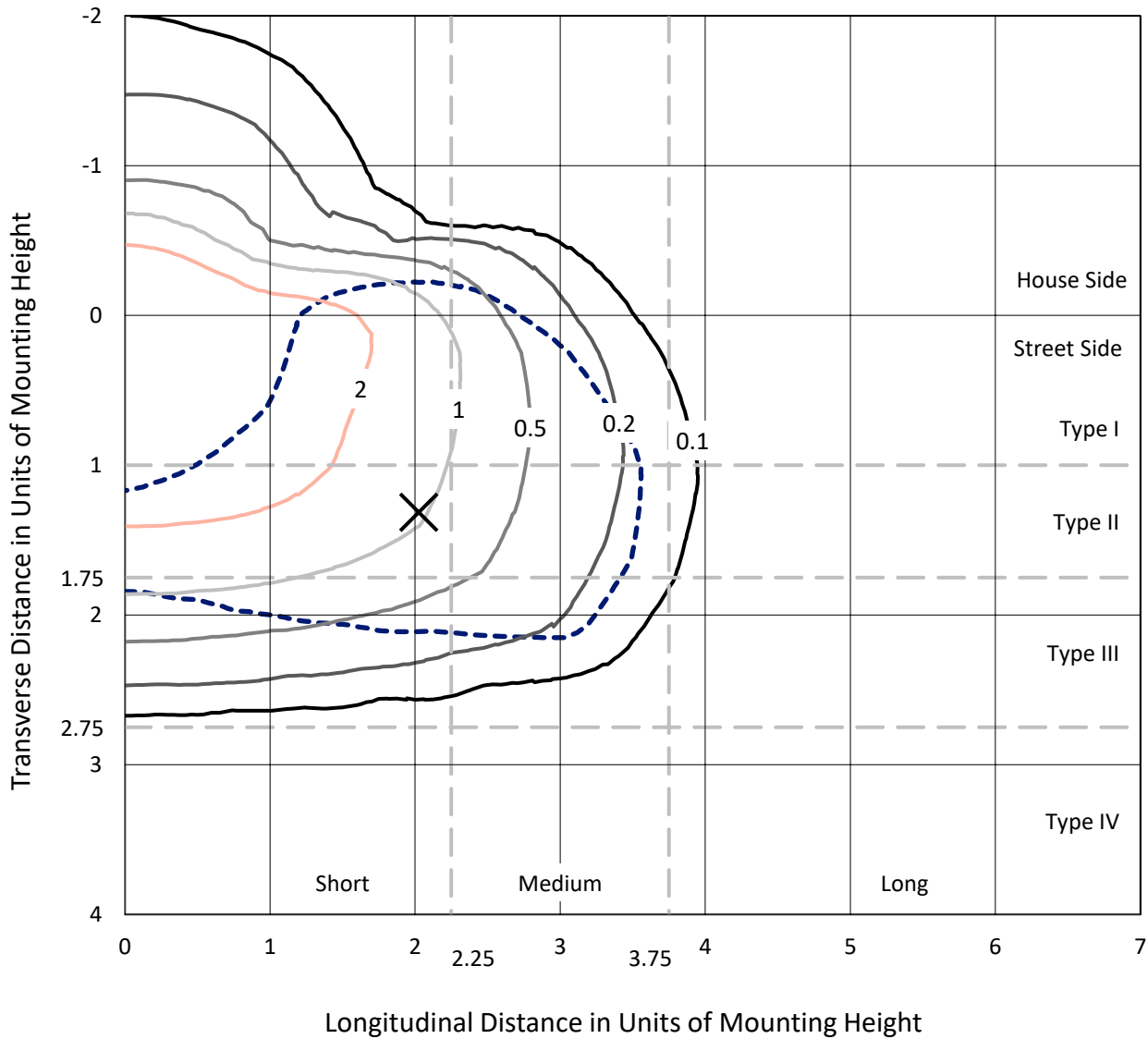
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

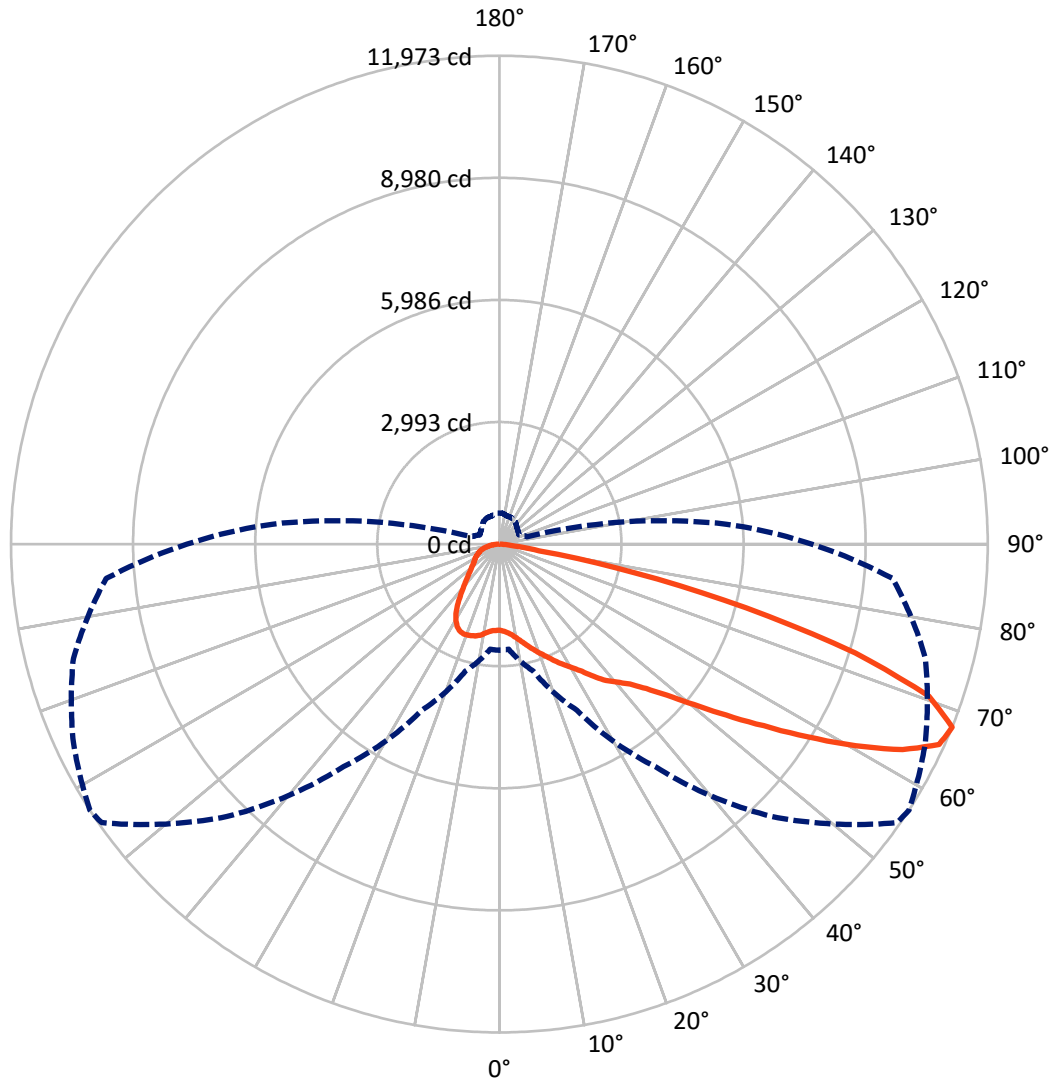
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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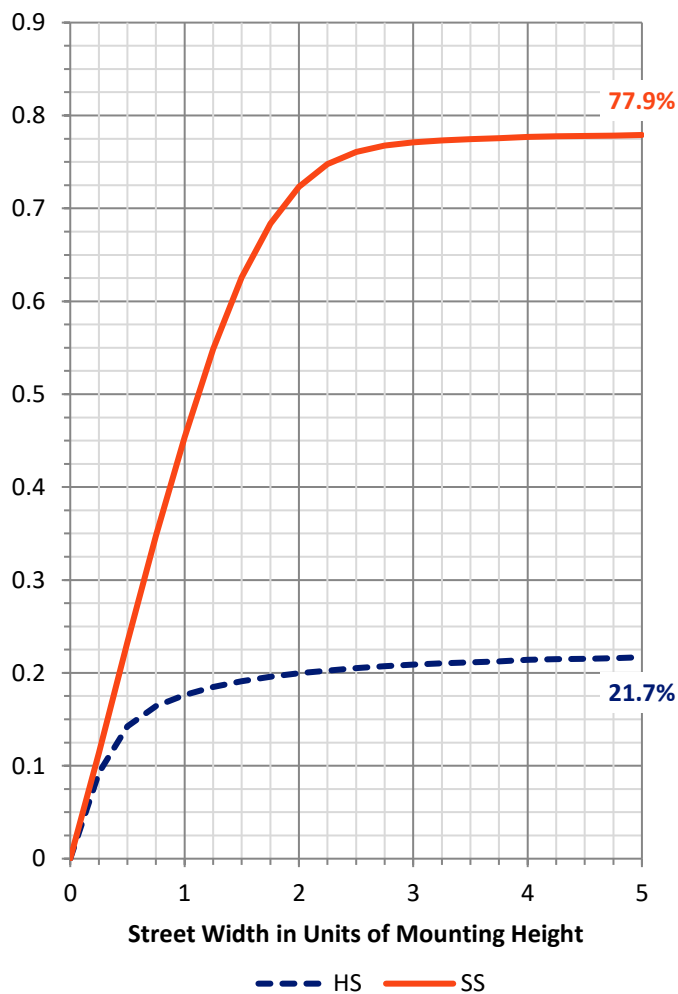
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3852.9	0.0	3852.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	13671.4	0.0	13671.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	17524.4	0.0	17524.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	1.2
10°-20°	693.3	4.0
20°-30°	1236.0	7.1
30°-40°	1797.0	10.3
40°-50°	2600.9	14.8
50°-60°	4070.3	23.2
60°-70°	4748.3	27.1
70°-80°	1982.1	11.3
80°-90°	187.1	1.1
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°	17524.4	100.0
0°-180°	17524.4	100.0

Coefficient of Utilization



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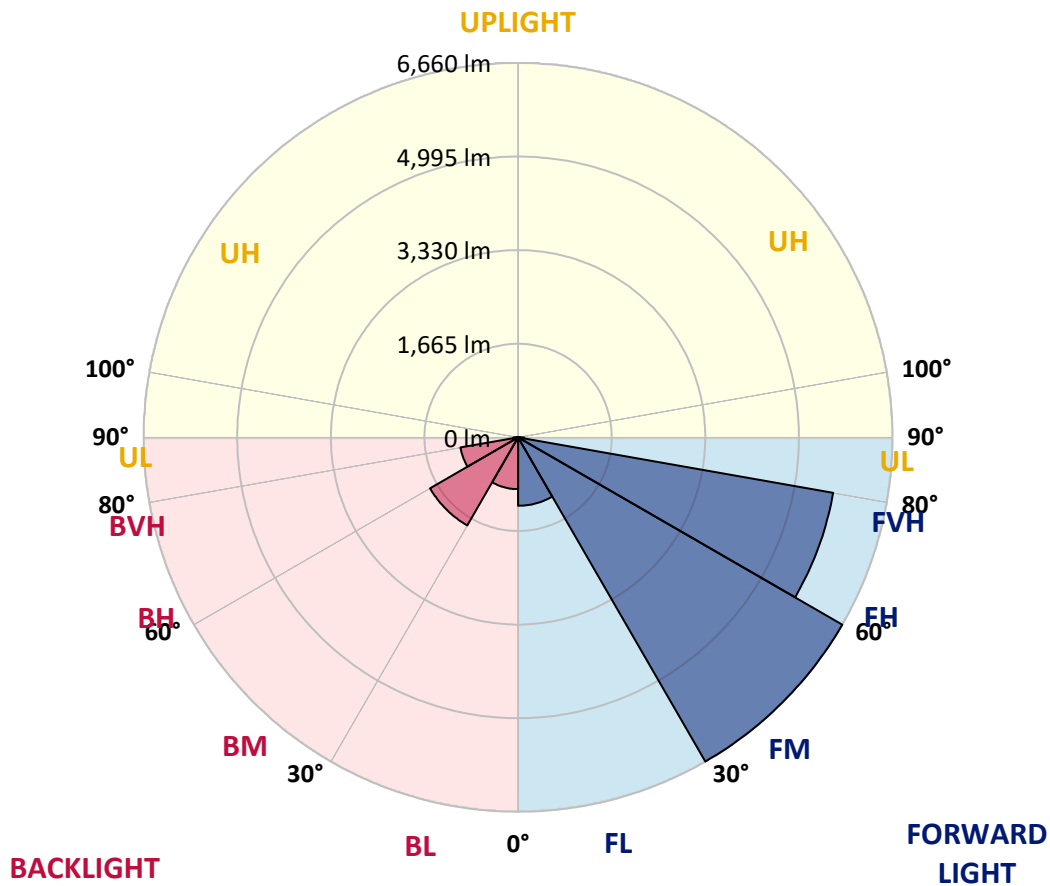
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.2	6.9			
FM (30°-60°)	6659.5	38.0			
FH (60°-80°)	5690.5	32.5			G3/7500
FVH (80°-90°)	104.2	0.6			G2/225
BL (0°-30°)	921.5	5.3	B2/1000		
BM (30°-60°)	1808.7	10.3	B2/2500		
BH (60°-80°)	1039.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	82.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6
2.5°	2141.7	2139.2	2137.9	2145.5	2143.0	2141.7	2141.7	2140.4	2137.9	2127.9	2114.1
5°	2200.7	2195.7	2190.7	2196.9	2191.9	2186.9	2185.6	2183.1	2174.3	2159.3	2137.9
7.5°	2262.2	2257.2	2258.5	2262.2	2258.5	2255.9	2252.2	2249.7	2235.9	2212.0	2183.1
10°	2348.8	2348.8	2351.4	2355.1	2356.4	2352.6	2345.1	2341.3	2325.0	2294.9	2254.7
12.5°	2474.4	2471.9	2471.9	2469.4	2473.1	2469.4	2461.8	2455.5	2435.5	2396.5	2338.8
15°	2640.1	2630.0	2621.3	2604.9	2599.9	2586.1	2588.6	2584.9	2566.0	2513.3	2440.5
17.5°	2817.1	2815.8	2802.0	2769.4	2736.8	2714.2	2719.2	2717.9	2707.9	2636.3	2543.4
20°	2972.8	2979.0	2966.5	2941.4	2897.4	2854.8	2852.3	2858.5	2846.0	2774.4	2645.1
22.5°	3147.3	3142.2	3129.7	3097.1	3064.4	3019.2	3004.2	2999.1	2994.1	2912.5	2749.3
25°	3313.0	3328.0	3311.7	3281.6	3231.4	3182.4	3169.9	3174.9	3161.1	3053.1	2861.0
27.5°	3522.6	3528.9	3518.9	3477.4	3434.8	3365.7	3341.9	3341.9	3336.8	3184.9	2948.9
30°	3746.1	3763.7	3746.1	3712.2	3668.3	3569.1	3517.6	3512.6	3497.5	3320.5	3051.9
32.5°	3970.8	3983.4	3970.8	3938.2	3888.0	3801.3	3727.3	3716.0	3695.9	3468.7	3157.3
35°	4170.4	4181.7	4179.2	4186.7	4145.3	4036.1	3990.9	3985.9	3933.1	3662.0	3300.4
37.5°	4388.9	4402.7	4383.8	4398.9	4382.6	4279.6	4265.8	4240.7	4165.4	3844.0	3451.1
40°	4637.4	4650.0	4619.8	4626.1	4607.3	4549.5	4479.2	4445.3	4333.6	4041.1	3688.3
42.5°	4903.6	4932.4	4946.2	4934.9	4891.0	4858.4	4735.3	4692.7	4599.8	4396.4	4078.8
45°	5289.0	5331.7	5351.7	5322.9	5304.0	5257.6	5106.9	5055.5	5006.5	4897.3	4623.6
47.5°	5704.5	5743.4	5807.4	5820.0	5835.1	5799.9	5587.8	5537.5	5546.3	5533.8	5294.0
50°	6035.9	6068.6	6212.9	6367.4	6495.4	6505.4	6234.3	6180.3	6228.0	6268.2	6101.2
52.5°	6277.0	6305.8	6496.7	6815.5	7105.5	7320.2	7027.7	6966.2	7005.1	7095.5	7018.9
55°	6472.8	6513.0	6712.6	7202.2	7788.5	8127.4	7940.4	7862.5	7846.2	7957.9	8001.9
57.5°	6575.7	6588.3	6868.3	7504.7	8289.4	8919.6	9001.2	8913.3	8757.6	8819.1	9047.6
60°	6341.0	6362.3	6745.2	7582.6	8684.8	9705.4	10114.7	10041.9	9710.5	9744.4	9996.7
62.5°	5692.0	5722.1	6182.8	7212.2	8717.4	10230.2	11142.9	11096.4	10652.0	10468.7	10544.0
65°	4565.9	4575.9	5053.0	6295.8	8068.4	10295.5	11859.7	11848.4	11309.8	10880.5	10557.9
67.5°	2603.7	2586.1	3223.8	4490.5	6658.6	9446.8	11906.1	11972.7	11523.3	10812.7	9679.1
70°	1128.6	1131.1	1424.9	2215.8	4309.8	7635.3	11058.8	11173.0	10905.6	9684.1	7700.6
72.5°	522.2	529.8	656.6	959.1	1840.4	4736.6	9017.5	9120.4	8890.7	7750.8	5602.8
75°	369.1	375.4	438.1	549.9	846.1	1845.4	6032.2	6248.1	6359.8	5797.4	3692.1
77.5°	280.0	288.7	320.1	381.6	522.2	654.1	2886.1	3400.9	4051.2	3606.7	1901.9
80°	178.3	178.3	212.2	254.8	318.9	340.2	833.6	988.0	1982.3	1486.4	747.0
82.5°	120.5	124.3	144.4	161.9	183.3	193.3	357.8	381.6	572.5	505.9	307.6
85°	64.0	66.5	75.3	74.1	87.9	76.6	150.6	149.4	209.7	229.7	116.8
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	16.3	17.6	43.9	70.3	38.9
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°	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6	2111.6
2.5°	2121.6	2106.5	2114.1	2111.6	2119.1	2119.1	2105.3	2101.5	2102.8	2087.7	2082.7
5°	2140.4	2122.9	2126.6	2121.6	2129.1	2135.4	2129.1	2129.1	2136.7	2125.4	2119.1
7.5°	2183.1	2163.0	2163.0	2156.8	2165.6	2170.6	2165.6	2173.1	2186.9	2175.6	2169.3
10°	2250.9	2227.1	2228.3	2220.8	2224.6	2222.0	2202.0	2195.7	2199.4	2189.4	2184.4
12.5°	2338.8	2306.2	2306.2	2291.1	2282.3	2255.9	2214.5	2199.4	2202.0	2193.2	2189.4
15°	2422.9	2392.8	2386.5	2356.4	2316.2	2267.2	2229.6	2219.5	2222.0	2213.3	2207.0
17.5°	2522.1	2483.2	2460.6	2405.3	2331.3	2281.0	2243.4	2219.5	2199.4	2179.4	2174.3
20°	2613.7	2564.8	2523.3	2438.0	2347.6	2278.5	2208.2	2149.2	2100.3	2073.9	2067.6
22.5°	2707.9	2645.1	2572.3	2460.6	2346.3	2233.3	2104.0	2014.9	1942.1	1903.2	1910.7
25°	2797.0	2717.9	2618.7	2481.9	2306.2	2132.9	1957.2	1824.1	1741.2	1711.1	1702.3
27.5°	2871.1	2773.2	2661.4	2471.9	2223.3	1988.5	1756.3	1608.2	1527.8	1493.9	1485.1
30°	2953.9	2843.5	2722.9	2425.4	2092.7	1786.4	1529.1	1408.6	1350.8	1318.2	1319.4
32.5°	3049.3	2933.9	2809.6	2336.3	1925.8	1568.0	1342.0	1259.2	1212.7	1180.1	1175.0
35°	3177.4	3063.2	2867.3	2202.0	1713.6	1367.1	1214.0	1146.2	1088.4	1045.7	1037.0
37.5°	3335.6	3257.7	2873.6	2022.4	1486.4	1229.0	1122.3	1049.5	979.2	922.7	916.4
40°	3606.7	3517.6	2822.1	1797.7	1293.1	1139.9	1045.7	961.6	880.0	817.3	808.5
42.5°	3993.4	3810.1	2711.6	1544.1	1147.4	1069.6	972.9	866.2	783.4	739.4	733.1
45°	4485.5	4136.5	2545.9	1305.6	1039.5	1000.5	896.4	784.6	740.7	709.3	703.0
47.5°	5088.1	4516.9	2355.1	1119.8	955.4	937.8	818.5	757.0	718.1	691.7	685.4
50°	5808.7	5001.5	2198.2	974.2	880.0	865.0	793.4	740.7	709.3	688.0	682.9
52.5°	6631.0	5540.0	2121.6	870.0	814.8	799.7	784.6	736.9	710.6	694.2	688.0
55°	7484.7	6107.5	2050.1	789.6	759.5	768.3	785.9	749.5	729.4	708.0	701.8
57.5°	8309.4	6639.8	1874.3	726.9	719.3	753.2	792.2	762.0	738.2	716.8	709.3
60°	8878.1	6931.0	1576.8	676.7	689.2	734.4	775.8	743.2	713.1	704.3	700.5
62.5°	9031.3	6895.9	1224.0	625.2	652.8	693.0	733.1	711.8	680.4	694.2	695.5
65°	8673.5	6519.3	918.9	575.0	605.1	639.0	689.2	680.4	669.1	706.8	708.0
67.5°	7660.4	5594.0	700.5	531.0	556.1	597.6	675.4	711.8	714.3	762.0	757.0
70°	5796.1	4179.2	548.6	489.6	518.5	597.6	719.3	735.7	705.5	749.5	739.4
72.5°	4007.2	2758.1	467.0	453.2	472.0	569.9	718.1	718.1	685.4	685.4	666.6
75°	2489.4	1622.0	406.7	406.7	406.7	498.4	698.0	661.6	603.8	577.5	562.4
77.5°	1229.0	788.4	341.5	354.0	340.2	416.8	569.9	541.1	505.9	478.3	468.3
80°	524.8	394.2	276.2	290.0	273.7	313.8	451.9	445.7	411.8	375.4	364.1
82.5°	241.0	203.4	220.9	227.2	199.6	236.0	330.2	330.2	311.3	261.1	242.3
85°	102.9	108.0	153.2	153.2	125.5	133.1	177.0	168.2	150.6	123.0	113.0
87.5°	35.2	52.7	77.8	67.8	26.4	11.3	6.3	2.5	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)