

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: P640143

Luminaire Tested: GWS-SA5D-730-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

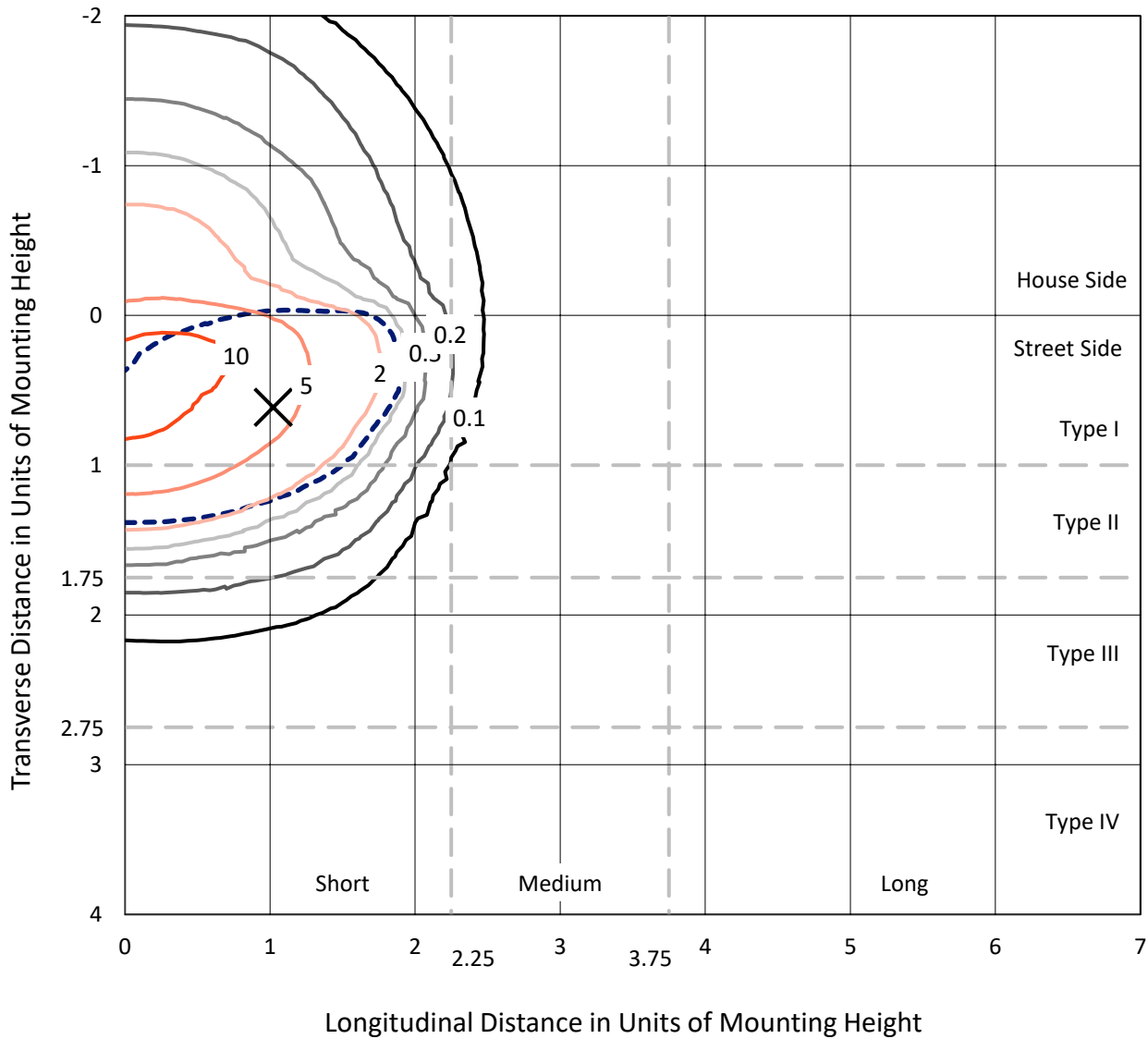
Lumens per Lamp: N/A  
Luminaire Lumens: 24075.9 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

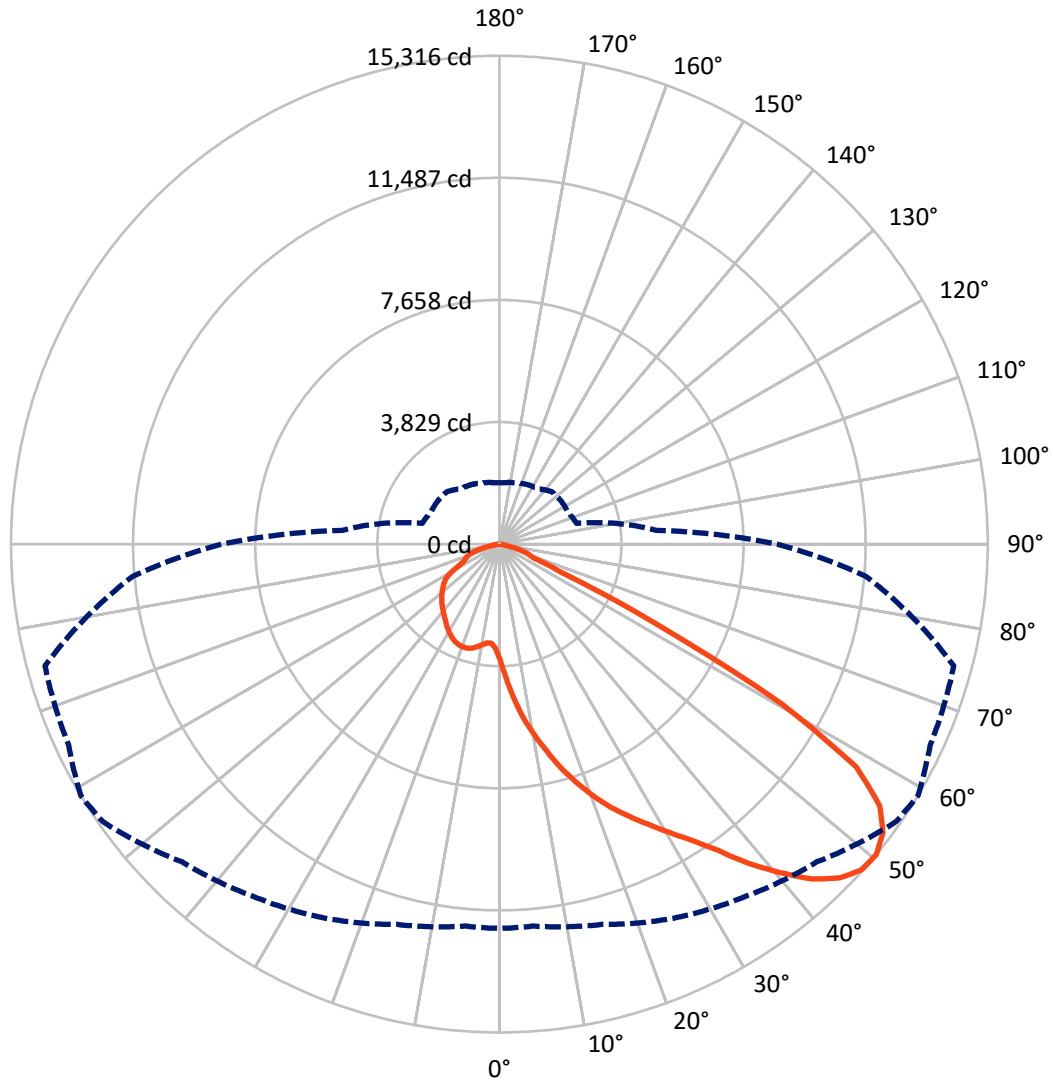
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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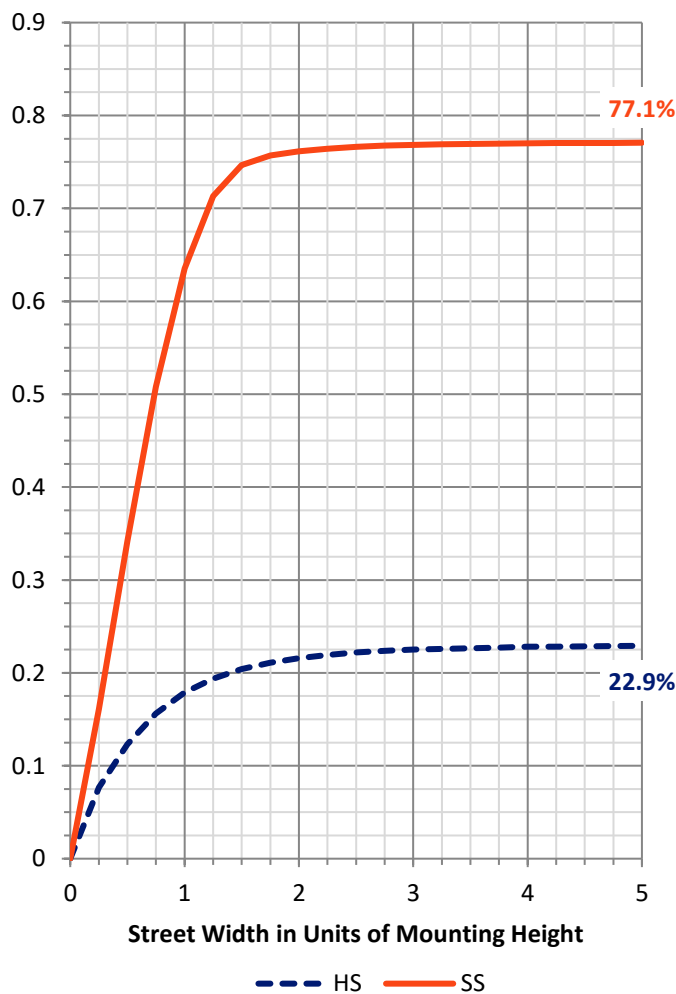
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5537.9	0.0	5537.9
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	18538.0	0.0	18538.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	24075.9	0.0	24075.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.2	1.7
10°-20°	1485.5	6.2
20°-30°	2812.9	11.7
30°-40°	4664.7	19.4
40°-50°	6372.2	26.5
50°-60°	5784.3	24.0
60°-70°	1926.2	8.0
70°-80°	561.8	2.3
80°-90°	59.0	0.2
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°	24075.9	100.0
0°-180°	24075.9	100.0

**Coefficient of Utilization**



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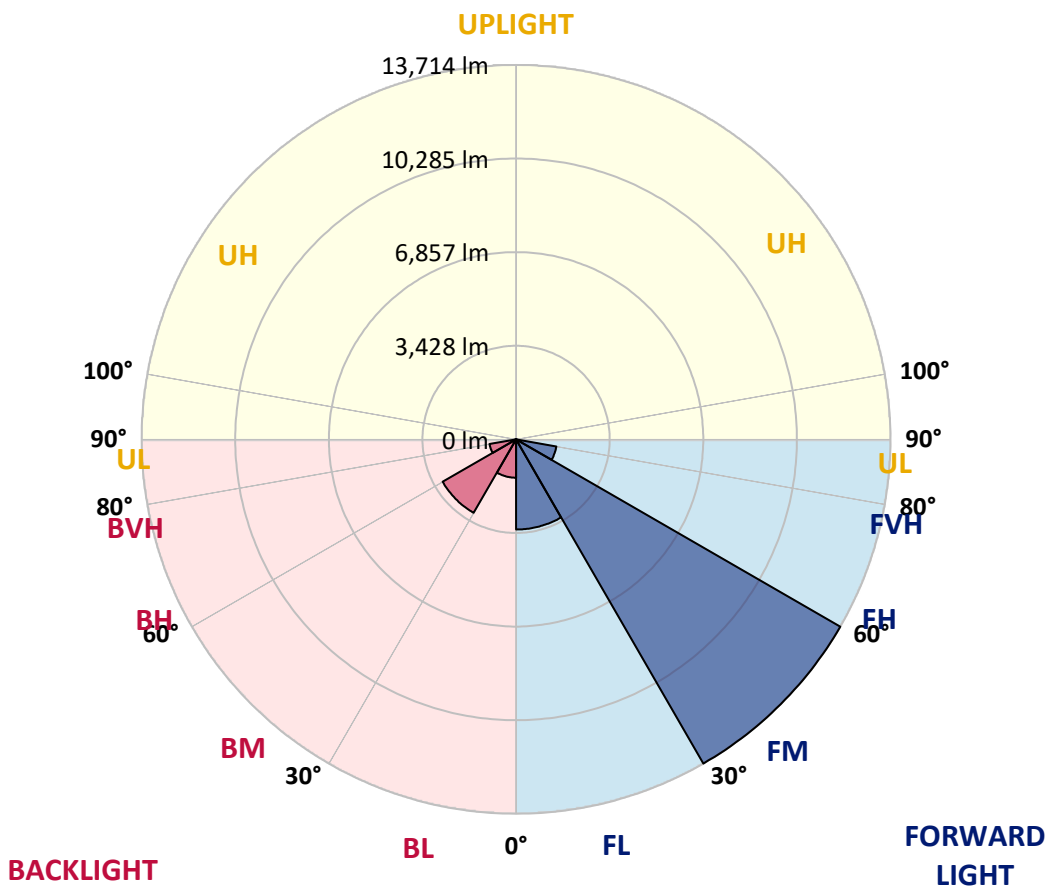
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.4	13.7			
FM (30°-60°)	13713.9	57.0			
FH (60°-80°)	1499.6	6.2			G1/1800
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	1406.2	5.8	B3/2500		
BM (30°-60°)	3107.3	12.9	B3/5000		
BH (60°-80°)	988.5	4.1	B2/1000		G2/1000
BVH (80°-90°)	35.9	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°	59°	65°	75°	85°
0°	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7
2.5°	4726.3	4761.6	4706.7	4710.6	4573.3	4510.6	4334.1	4230.1	4161.5	3969.3	3794.8
5°	5679.4	5638.2	5595.1	5569.6	5449.9	5281.3	5061.6	4887.1	4726.3	4349.7	3986.9
7.5°	6263.8	6242.2	6212.8	6197.1	6079.4	5902.9	5683.3	5534.3	5300.9	4791.0	4220.3
10°	6760.0	6734.5	6716.8	6728.6	6632.5	6518.7	6279.5	6108.9	5846.1	5257.7	4502.7
12.5°	7144.3	7158.1	7163.9	7226.7	7185.5	7116.9	6869.8	6689.4	6397.1	5750.0	4834.1
15°	7448.3	7444.4	7513.0	7632.6	7699.3	7656.2	7458.1	7307.1	6950.2	6234.4	5191.1
17.5°	7518.9	7522.8	7630.7	7840.5	8058.2	8164.1	8052.3	7871.9	7518.9	6712.9	5561.7
20°	7575.8	7583.6	7695.4	7934.7	8252.4	8548.5	8566.1	8436.7	8132.7	7230.6	5938.2
22.5°	7934.7	7952.3	7981.7	8132.7	8419.1	8793.6	8999.5	8972.1	8717.1	7773.8	6344.2
25°	8878.0	8825.0	8681.8	8638.7	8748.5	9052.5	9403.5	9456.5	9331.0	8372.0	6781.5
27.5°	10042.9	9986.0	9774.2	9550.6	9313.3	9419.2	9793.8	9952.6	9954.6	9030.9	7220.8
30°	11099.9	11054.8	10882.2	10562.6	10152.7	9999.7	10276.2	10490.0	10617.5	9791.8	7720.9
32.5°	12004.0	11962.8	11729.4	11468.6	11068.5	10760.6	10860.6	11066.6	11364.6	10776.3	8342.6
35°	12764.9	12723.7	12500.1	12237.3	11866.7	11682.3	11647.0	11788.2	12174.6	11803.9	9056.4
37.5°	13382.6	13341.4	13108.1	12861.0	12578.6	12590.3	12643.3	12711.9	12933.5	12904.1	9819.3
40°	13782.7	13739.6	13572.9	13396.4	13217.9	13359.1	13621.9	13539.5	13657.2	13792.5	10521.4
42.5°	13961.2	13906.2	13810.2	13770.9	13716.0	13935.7	14441.6	14359.3	14218.1	14384.8	11043.0
45°	13782.7	13735.6	13733.7	13853.3	13980.8	14263.2	15008.4	14941.7	14584.8	14671.1	11354.8
47.5°	13235.5	13194.4	13306.1	13619.9	13933.7	14345.5	15261.4	15273.1	14845.6	14790.7	11556.8
50°	12053.0	12025.5	12349.1	12943.3	13484.6	14088.6	15181.0	15316.3	14908.4	14753.4	11531.3
52.5°	9648.7	9776.1	10480.2	11472.5	12523.7	13637.6	14882.9	15059.4	14606.4	14508.3	11394.1
55°	6605.0	6663.9	7367.9	8817.2	10484.1	12660.9	14198.5	14471.0	14249.4	14467.1	11537.2
57.5°	3420.2	3467.2	4022.2	5308.7	7111.0	10005.6	12298.1	13192.4	13529.7	14675.0	11982.4
60°	1404.2	1443.4	1672.8	2294.5	3586.9	5826.5	8850.5	10176.2	10968.5	13402.2	10641.0
62.5°	1019.8	1039.4	1149.2	1368.9	1878.7	2855.4	5008.7	5497.0	6054.0	8399.4	6756.0
65°	859.0	880.5	968.8	1102.1	1370.8	1751.3	2139.6	2151.3	2371.0	3422.1	2504.3
67.5°	719.7	739.3	817.8	931.5	1108.0	1243.3	1149.2	1151.2	1147.3	1241.4	1200.2
70°	560.9	576.6	655.0	776.6	868.8	798.2	898.2	994.3	953.1	990.4	1047.2
72.5°	409.9	427.5	496.2	588.3	564.8	568.7	727.6	825.6	802.1	843.3	896.2
75°	296.1	307.9	343.2	294.2	309.9	374.6	511.9	564.8	588.3	623.6	670.7
77.5°	96.1	96.1	107.9	135.3	168.7	207.9	260.8	282.4	317.7	356.9	390.3
80°	49.0	51.0	60.8	74.5	94.1	119.6	153.0	162.8	180.4	202.0	215.7
82.5°	23.5	25.5	29.4	37.3	49.0	62.8	84.3	94.1	105.9	119.6	129.4
85°	5.9	5.9	7.8	11.8	15.7	23.5	31.4	37.3	47.1	56.9	62.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	5.9	7.8	9.8	11.8	15.7
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°	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7	3647.7
2.5°	3716.3	3606.5	3465.3	3345.7	3235.8	3151.5	3078.9	3043.6	3010.3	2986.8	2994.6
5°	3818.3	3630.0	3367.2	3184.8	3073.1	3016.2	2977.0	2957.4	2953.4	2937.7	2931.9
7.5°	3967.3	3698.7	3347.6	3163.3	3088.8	3059.3	3037.8	3026.0	3031.9	3016.2	3010.3
10°	4151.7	3812.4	3396.6	3233.9	3169.2	3147.6	3124.1	3108.4	3100.5	3077.0	3073.1
12.5°	4381.1	3953.6	3484.9	3324.1	3259.4	3222.1	3190.7	3163.3	3145.6	3116.2	3108.4
15°	4628.2	4110.5	3588.8	3412.3	3335.9	3280.9	3230.0	3188.8	3157.4	3118.2	3112.3
17.5°	4896.9	4275.2	3675.1	3473.1	3375.1	3302.5	3228.0	3167.2	3124.1	3073.1	3067.2
20°	5177.3	4441.9	3739.8	3502.5	3377.0	3279.0	3179.0	3098.6	3043.6	2992.7	2988.7
22.5°	5467.6	4594.9	3779.1	3494.7	3345.7	3224.1	3104.4	3014.2	2949.5	2888.7	2884.8
25°	5759.8	4742.0	3788.9	3463.3	3282.9	3141.7	3022.1	2916.2	2843.6	2775.0	2767.1
27.5°	6055.9	4865.5	3765.3	3400.6	3198.6	3045.6	2926.0	2822.0	2747.5	2678.9	2667.1
30°	6371.7	4971.4	3714.3	3318.2	3100.5	2943.6	2826.0	2747.5	2676.9	2608.3	2596.5
32.5°	6709.0	5063.6	3641.8	3218.2	2986.8	2841.7	2755.4	2684.8	2614.2	2553.4	2541.6
35°	7111.0	5124.4	3533.9	3088.8	2880.9	2767.1	2708.3	2625.9	2539.6	2473.0	2467.1
37.5°	7526.7	5171.5	3404.5	2965.2	2788.7	2724.0	2675.0	2563.2	2455.3	2374.9	2365.1
40°	7928.8	5210.7	3243.7	2849.5	2704.4	2692.6	2625.9	2486.7	2300.4	2210.2	2202.3
42.5°	8303.3	5222.4	3075.0	2725.9	2627.9	2622.0	2547.5	2331.8	2188.6	2131.7	2123.9
45°	8560.3	5212.6	2900.5	2610.2	2551.4	2520.0	2441.6	2220.0	2131.7	2080.7	2070.9
47.5°	8750.5	5161.6	2704.4	2488.7	2465.1	2422.0	2253.3	2149.4	2067.0	2016.0	2006.2
50°	8717.1	4949.8	2506.3	2371.0	2361.2	2323.9	2116.0	2061.1	1988.6	1933.7	1925.8
52.5°	8544.6	4547.8	2304.3	2241.6	2261.2	2188.6	2018.0	1955.2	1892.5	1829.7	1816.0
55°	8587.7	4257.6	2151.3	2116.0	2151.3	1986.6	1908.2	1841.5	1782.7	1721.9	1710.1
57.5°	8776.0	3971.3	1988.6	1980.7	2018.0	1831.7	1767.0	1682.6	1598.3	1549.3	1549.3
60°	7369.9	2894.6	1702.2	1721.9	1806.2	1706.2	1649.3	1563.0	1470.8	1427.7	1427.7
62.5°	4357.6	1816.0	1412.0	1390.4	1443.4	1506.1	1537.5	1466.9	1357.1	1300.2	1302.2
65°	1919.9	1321.8	1245.3	1227.7	1212.0	1255.1	1341.4	1347.3	1231.6	1164.9	1166.9
67.5°	1182.6	1196.3	1164.9	1151.2	1137.4	1129.6	1121.8	1125.7	1094.3	1033.5	1031.5
70°	1066.8	1104.1	1082.5	1070.8	1053.1	1039.4	992.3	915.8	862.9	847.2	864.9
72.5°	917.8	968.8	957.0	951.1	929.6	896.2	833.5	759.0	696.2	657.0	664.8
75°	692.3	733.5	739.3	741.3	717.8	686.4	621.7	558.9	504.0	462.8	472.6
77.5°	398.1	421.6	427.5	433.4	415.8	404.0	360.8	315.7	286.3	243.2	254.9
80°	221.6	231.4	231.4	233.4	223.6	209.8	180.4	154.9	141.2	121.6	123.6
82.5°	133.4	137.3	139.2	141.2	135.3	121.6	100.0	82.4	74.5	64.7	62.8
85°	64.7	68.6	68.6	70.6	60.8	53.0	41.2	31.4	27.5	19.6	21.6
87.5°	15.7	17.7	17.7	15.7	13.7	9.8	5.9	2.0	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)