

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: P640201

Luminaire Tested: GWS-SA5D-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

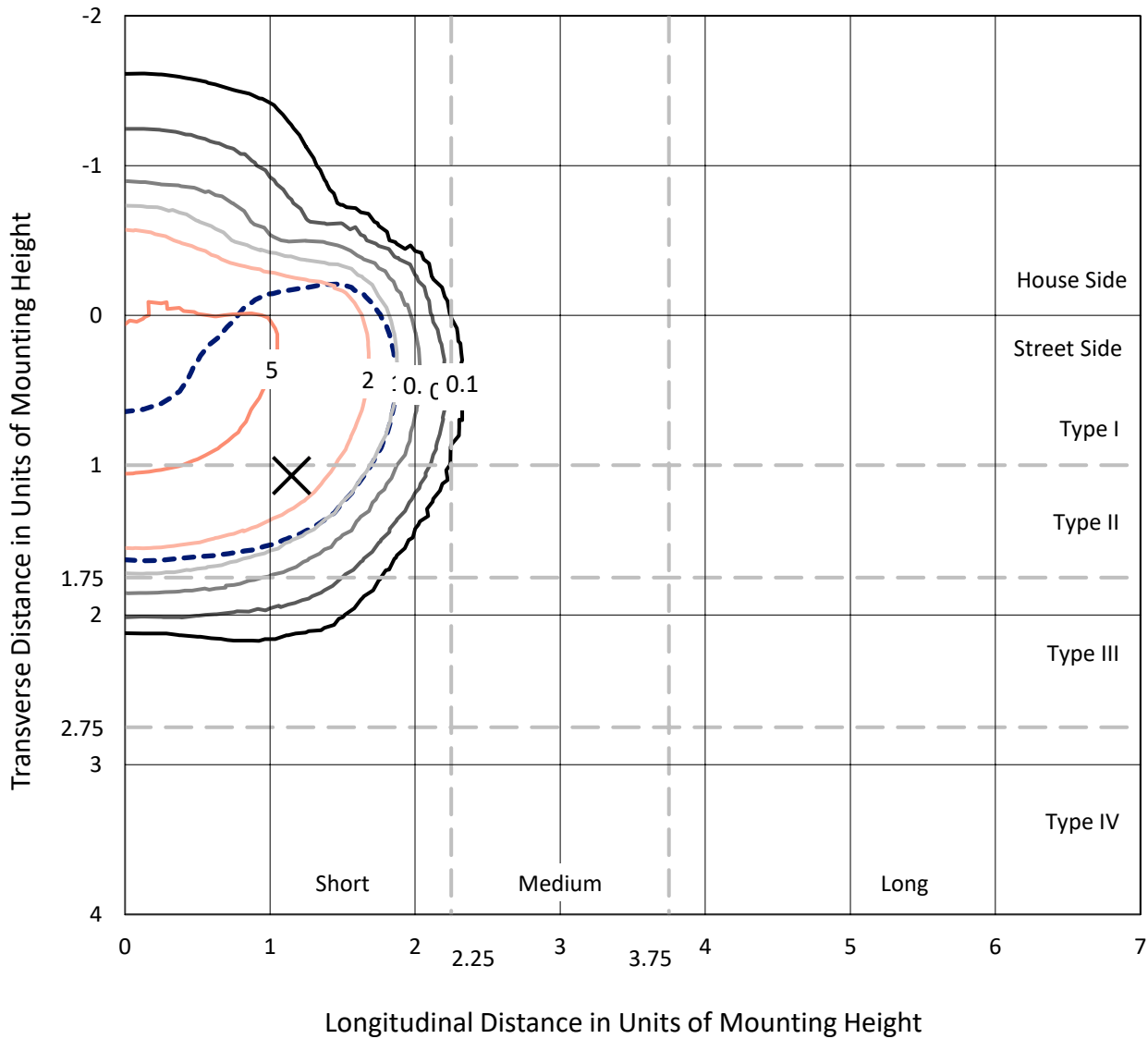
Lumens per Lamp: N/A  
Luminaire Lumens: 18296.4 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

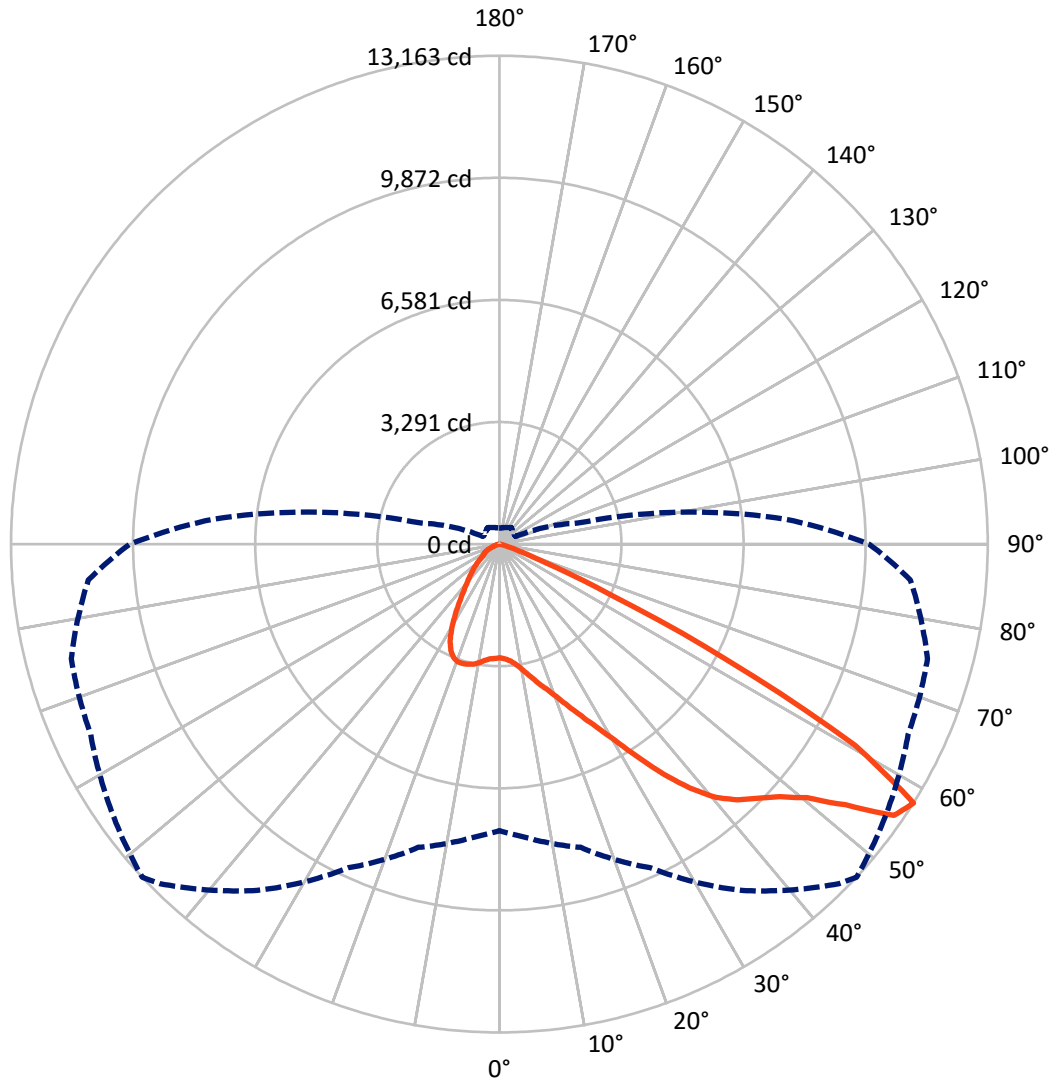
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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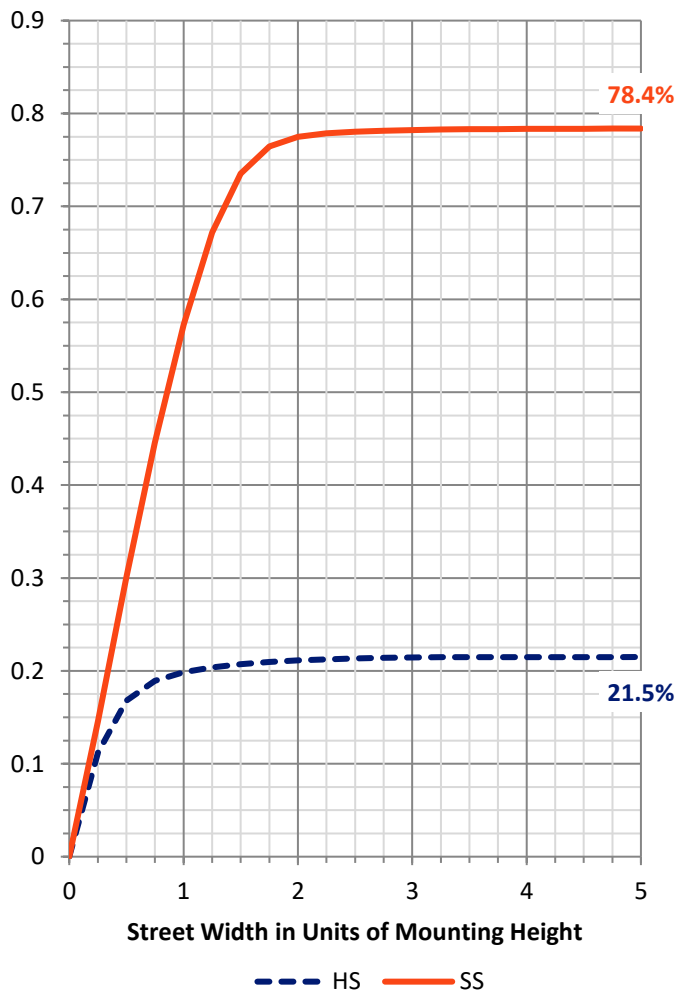
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3969.4	0.0	3969.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	14327.0	0.0	14327.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	18296.4	0.0	18296.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.7	1.7
10°-20°	1028.2	5.6
20°-30°	1909.1	10.4
30°-40°	3056.1	16.7
40°-50°	4467.3	24.4
50°-60°	5513.5	30.1
60°-70°	1842.3	10.1
70°-80°	171.7	0.9
80°-90°	3.5	0.0
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°	18296.4	100.0
0°-180°	18296.4	100.0

**Coefficient of Utilization**



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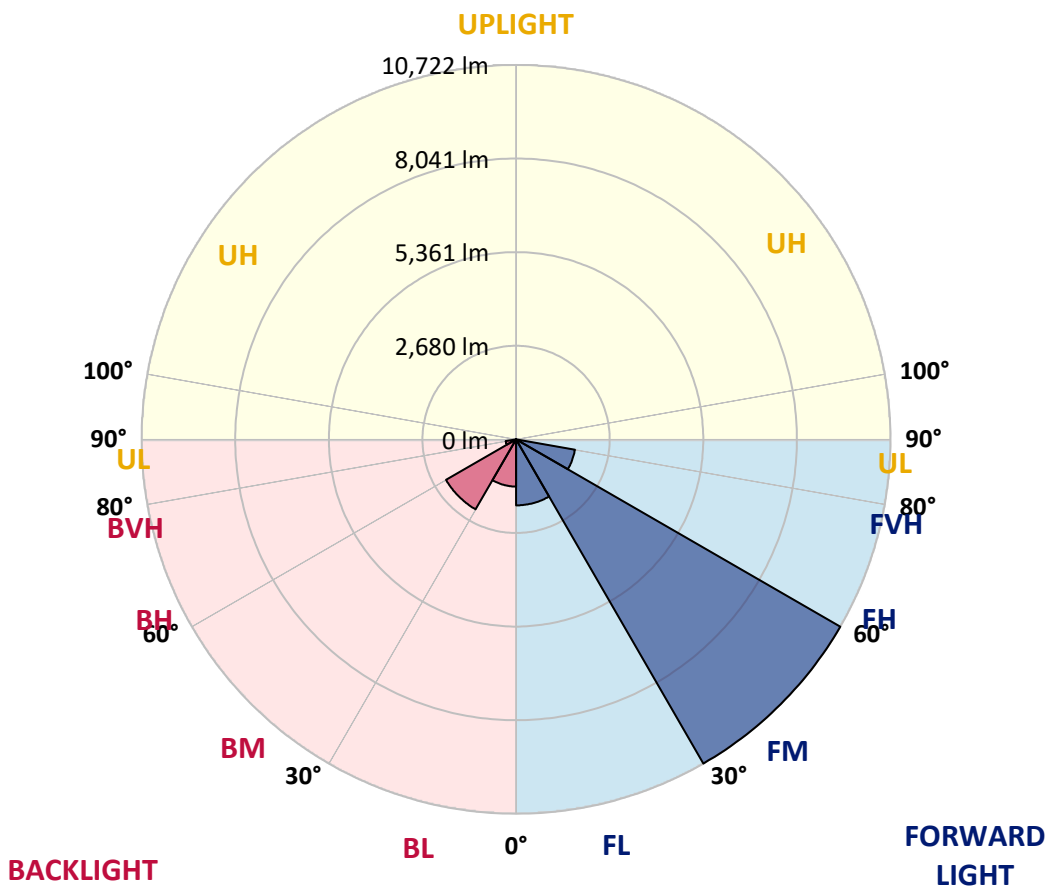
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1890.9	10.3			
FM (30°-60°)	10721.5	58.6			
FH (60°-80°)	1712.2	9.4			G1/1800
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	1351.1	7.4	B3/2500		
BM (30°-60°)	2315.4	12.7	B2/2500		
BH (60°-80°)	301.8	1.6	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8
2.5°	3094.7	3092.6	3090.4	3103.2	3098.9	3096.8	3101.1	3101.1	3101.1	3088.3	3062.8
5°	3169.0	3169.0	3166.9	3179.7	3169.0	3162.7	3164.8	3164.8	3156.3	3132.9	3101.1
7.5°	3285.9	3281.6	3277.4	3290.1	3279.5	3277.4	3281.6	3268.9	3254.0	3215.8	3171.2
10°	3453.7	3453.7	3447.3	3460.0	3451.5	3447.3	3447.3	3438.8	3411.2	3351.7	3285.9
12.5°	3685.2	3674.6	3659.7	3649.1	3644.8	3642.7	3644.8	3632.1	3602.3	3525.9	3434.5
15°	3937.9	3929.4	3906.1	3889.1	3865.7	3861.5	3874.2	3863.6	3833.9	3729.8	3600.2
17.5°	4256.5	4267.2	4207.7	4171.6	4103.6	4099.4	4103.6	4120.6	4099.4	3965.5	3776.5
20°	4528.4	4536.9	4492.3	4466.8	4405.2	4377.6	4386.1	4413.7	4390.3	4233.2	3969.8
22.5°	4819.4	4830.0	4783.3	4730.2	4702.6	4702.6	4734.4	4772.7	4740.8	4534.8	4190.7
25°	5167.7	5176.2	5138.0	5067.9	5019.1	5080.7	5127.4	5229.3	5176.2	4895.9	4451.9
27.5°	5567.1	5569.2	5514.0	5441.7	5416.3	5530.9	5577.7	5734.9	5713.6	5301.6	4728.1
30°	5994.0	5996.1	5983.4	5934.5	5911.1	6062.0	6125.7	6352.9	6338.1	5804.9	5104.0
32.5°	6437.9	6437.9	6461.3	6457.0	6484.6	6731.0	6833.0	7092.1	7077.2	6420.9	5571.3
35°	6883.9	6886.1	6926.4	7028.4	7143.1	7470.2	7604.0	7918.3	7884.4	7157.9	6168.2
37.5°	7391.6	7370.3	7425.6	7578.5	7833.4	8211.5	8338.9	8638.4	8600.2	7912.0	6947.7
40°	8003.3	7965.1	7965.1	8143.5	8432.4	8867.8	8976.1	9124.8	8995.2	8521.6	7712.3
42.5°	8678.7	8642.6	8595.9	8753.1	8995.2	9335.1	9424.3	9383.9	9277.7	9097.2	8583.2
45°	9362.7	9307.5	9339.3	9434.9	9575.1	9736.5	9770.5	9583.6	9534.7	9585.7	9303.2
47.5°	9883.1	9844.8	9923.4	10057.2	10171.9	10195.3	10171.9	9912.8	9908.6	10089.1	9802.4
50°	10057.2	10061.5	10278.1	10571.2	10756.0	10775.2	10743.3	10445.9	10405.6	10458.7	10072.1
52.5°	10074.2	10091.2	10407.7	10966.3	11469.7	11699.1	11673.6	11352.9	10957.8	10900.5	10479.9
55°	9664.3	9764.1	10205.9	11021.5	12092.0	12824.8	12909.8	12296.0	11709.7	11660.9	11357.1
57.5°	7725.1	7929.0	8462.1	9623.9	11397.5	12941.7	13162.6	12720.8	12153.6	11945.5	11121.4
60°	4617.6	4870.4	5382.3	6807.5	8674.5	10637.1	11017.3	11078.9	10817.6	10216.5	8532.2
62.5°	1981.7	1960.5	2591.3	3683.1	5159.2	6760.8	6932.8	7200.4	7427.7	6799.0	5178.4
65°	679.7	739.2	1028.0	1661.0	2582.8	3139.3	3292.2	3532.2	3855.1	3181.8	1896.7
67.5°	420.6	446.0	592.6	981.3	1393.4	1372.1	1304.1	1265.9	1231.9	843.2	520.4
70°	305.9	327.1	416.3	675.4	936.7	658.4	571.4	463.0	514.0	473.7	369.6
72.5°	206.0	223.0	286.7	409.9	480.0	320.7	297.4	337.7	407.8	388.7	301.6
75°	123.2	133.8	163.5	199.7	195.4	165.7	167.8	237.9	312.2	291.0	214.5
77.5°	85.0	89.2	108.3	129.6	95.6	51.0	46.7	65.8	106.2	106.2	72.2
80°	21.2	27.6	27.6	17.0	14.9	12.7	12.7	19.1	29.7	21.2	10.6
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2
85°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
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°	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8	3062.8
2.5°	3077.7	3052.2	3069.2	3065.0	3077.7	3082.0	3062.8	3058.6	3060.7	3035.2	3026.7
5°	3107.4	3077.7	3086.2	3077.7	3092.6	3105.3	3098.9	3107.4	3118.1	3098.9	3090.4
7.5°	3171.2	3141.4	3139.3	3126.6	3147.8	3156.3	3154.2	3177.5	3198.8	3186.0	3173.3
10°	3281.6	3241.3	3237.0	3226.4	3232.8	3239.1	3215.8	3220.0	3239.1	3224.3	3217.9
12.5°	3417.5	3368.7	3358.1	3332.6	3332.6	3300.7	3249.8	3239.1	3254.0	3243.4	3232.8
15°	3564.1	3498.3	3481.3	3436.7	3394.2	3334.7	3281.6	3268.9	3279.5	3266.7	3258.2
17.5°	3727.7	3653.3	3598.1	3519.5	3426.0	3356.0	3296.5	3268.9	3251.9	3226.4	3224.3
20°	3889.1	3791.4	3697.9	3572.6	3449.4	3343.2	3245.5	3173.3	3111.7	3073.5	3058.6
22.5°	4076.0	3931.6	3780.8	3604.5	3428.2	3266.7	3094.7	2971.5	2865.3	2829.2	2812.2
25°	4275.7	4088.7	3863.6	3634.2	3356.0	3096.8	2863.2	2680.5	2540.3	2493.6	2474.5
27.5°	4496.6	4239.5	3948.6	3627.8	3207.3	2854.7	2544.6	2317.3	2179.2	2136.8	2151.6
30°	4776.9	4435.0	4054.8	3562.0	2984.2	2514.8	2151.6	1960.5	1856.4	1816.0	1818.2
32.5°	5150.7	4715.3	4209.8	3421.8	2697.5	2128.3	1809.7	1669.5	1599.4	1546.3	1542.0
35°	5686.0	5142.3	4354.2	3196.7	2349.2	1784.2	1552.7	1442.2	1344.5	1282.9	1293.5
37.5°	6327.5	5679.6	4432.8	2892.9	1958.3	1516.6	1359.4	1246.8	1136.4	1045.0	1055.6
40°	7087.9	6382.7	4426.5	2493.6	1601.5	1333.9	1197.9	1066.3	928.2	845.4	853.9
42.5°	7935.3	7047.5	4288.4	2070.9	1327.5	1185.2	1042.9	877.2	743.4	692.4	694.6
45°	8670.3	7587.0	4046.3	1633.4	1117.2	1040.8	881.5	711.5	652.1	616.0	613.8
47.5°	9214.0	7982.1	3700.0	1285.0	947.3	909.1	724.3	637.2	590.5	560.7	556.5
50°	9517.7	8120.1	3317.7	1006.8	800.8	771.0	647.8	577.7	545.9	526.8	522.5
52.5°	9925.5	8285.8	3043.7	794.4	671.2	630.8	596.8	537.4	516.1	501.3	494.9
55°	10571.2	8606.5	2805.8	630.8	558.6	550.1	562.9	514.0	501.3	477.9	469.4
57.5°	9963.8	7731.4	2179.2	488.5	471.5	503.4	543.7	490.6	458.8	437.5	429.1
60°	7011.4	5140.1	1096.0	392.9	420.6	471.5	511.9	443.9	412.1	416.3	412.1
62.5°	3865.7	2572.2	492.8	329.2	365.3	416.3	437.5	384.4	363.2	399.3	405.7
65°	1263.8	875.1	284.6	254.9	288.9	339.8	378.1	365.3	361.1	403.6	416.3
67.5°	388.7	288.9	193.3	182.7	199.7	250.6	318.6	395.1	424.8	437.5	443.9
70°	291.0	227.3	165.7	155.1	163.5	191.2	269.8	329.2	310.1	312.2	308.0
72.5°	233.6	180.5	142.3	135.9	135.9	131.7	142.3	178.4	201.8	212.4	212.4
75°	163.5	127.4	108.3	99.8	78.6	63.7	57.3	57.3	51.0	48.9	46.7
77.5°	55.2	46.7	42.5	34.0	23.4	19.1	17.0	14.9	10.6	6.4	4.2
80°	8.5	6.4	4.2	4.2	4.2	2.1	2.1	2.1	0.0	0.0	0.0
82.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
85°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	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)