

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: P640261

Luminaire Tested: GWS-SA5D-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

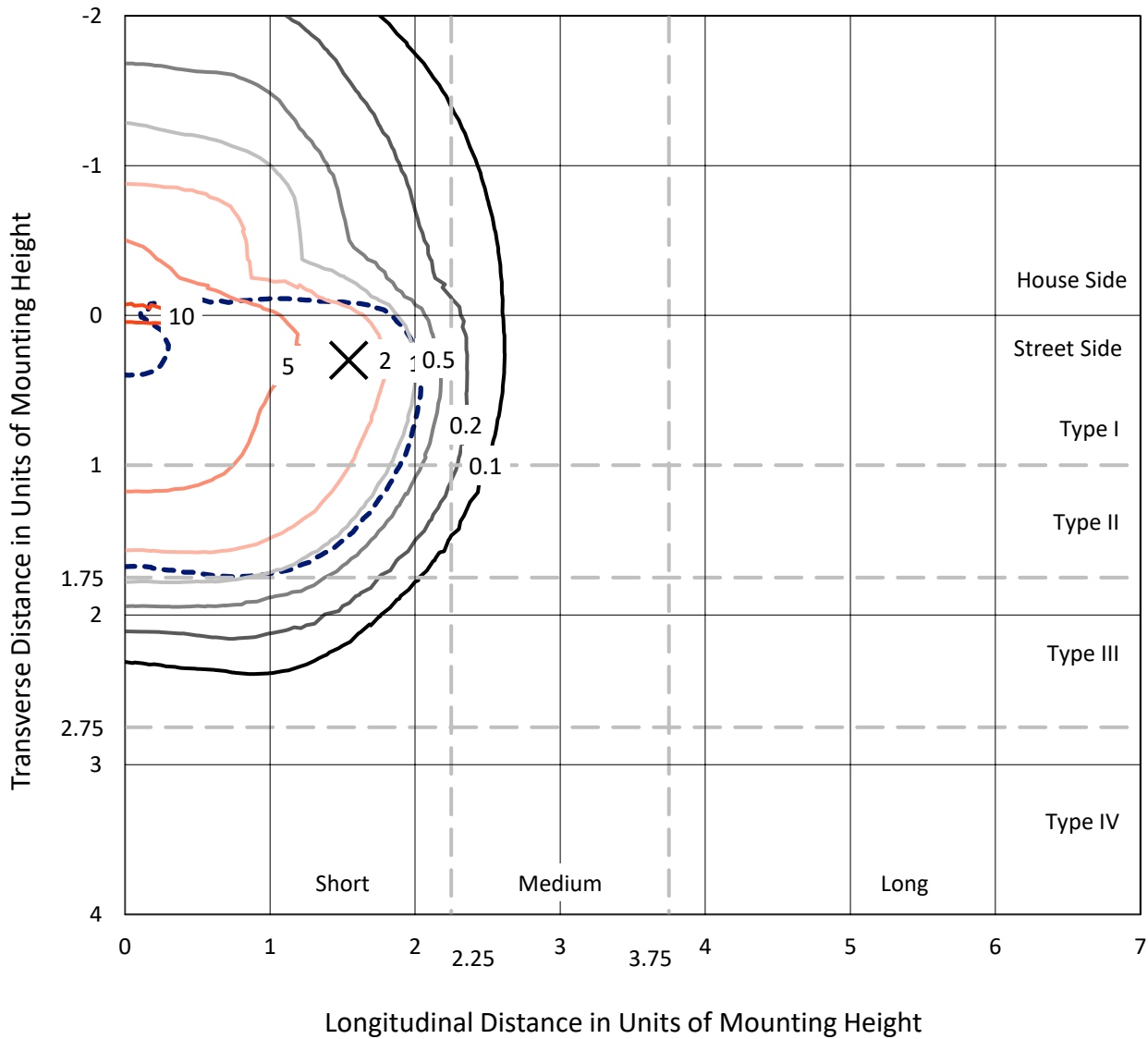
Lumens per Lamp: N/A  
Luminaire Lumens: 26337.9 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

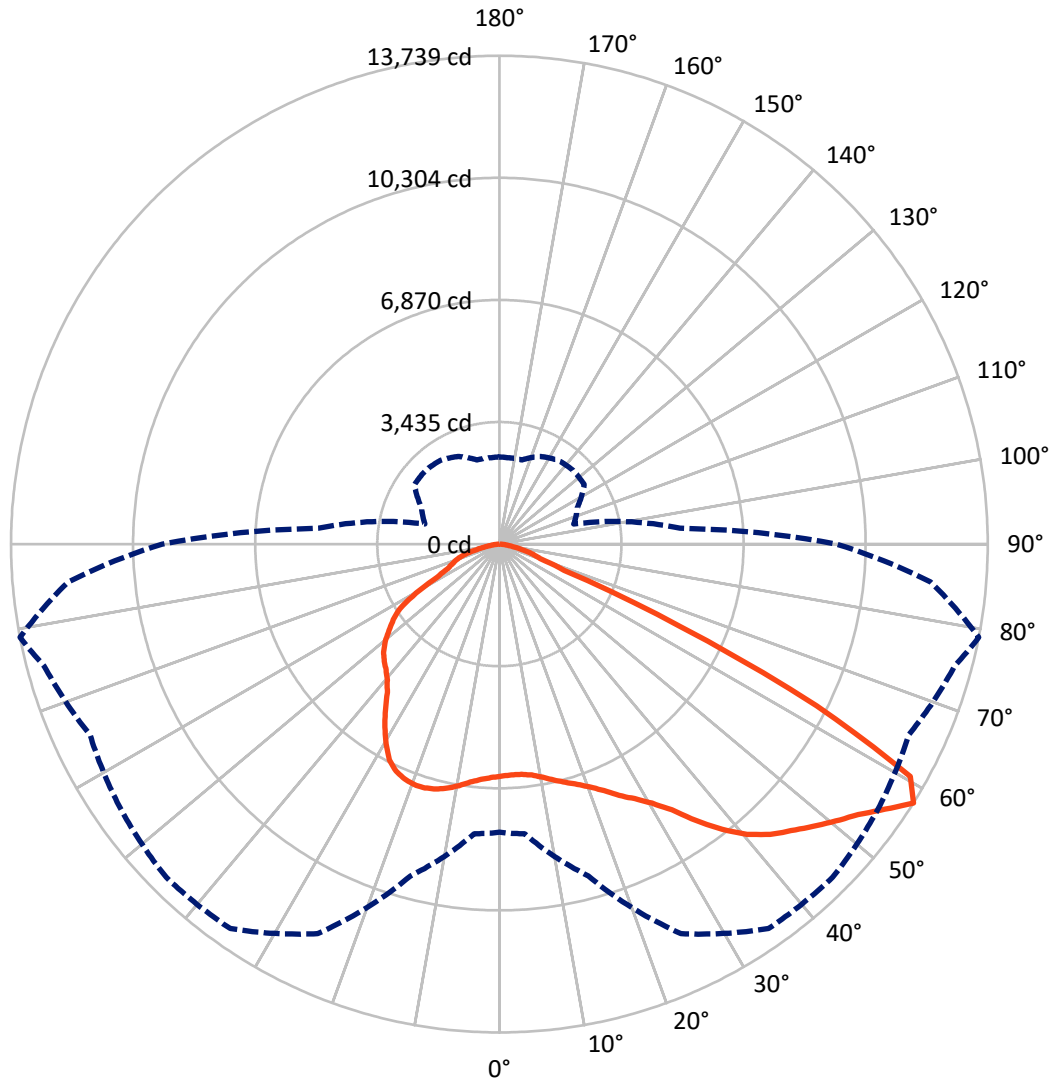
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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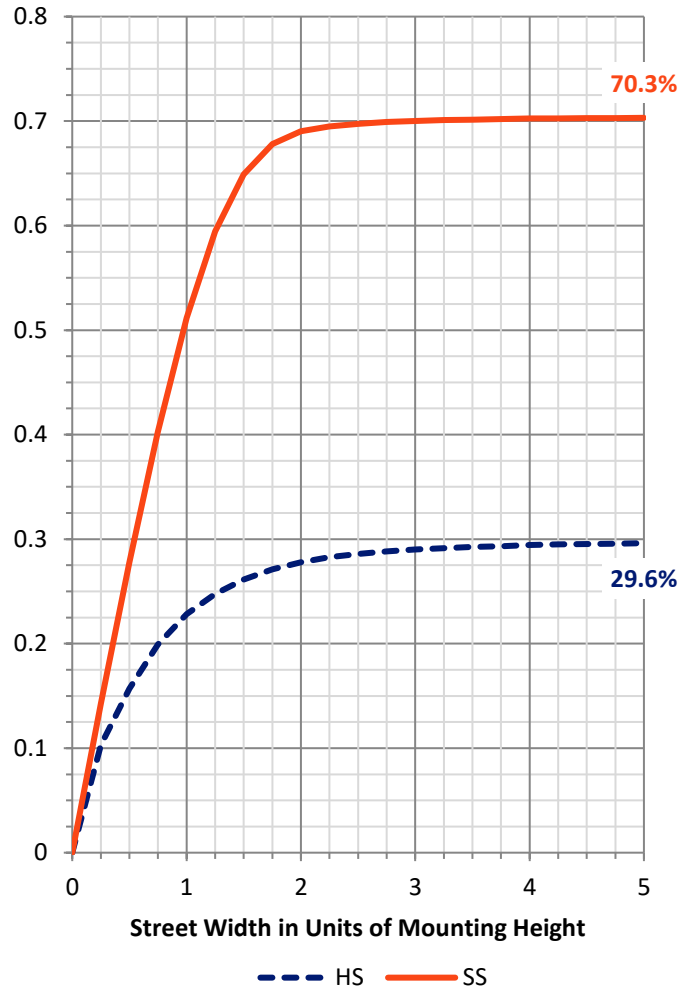
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7829.0	0.0	7829.0
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	18508.9	0.0	18508.9
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	26337.9	0.0	26337.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.5	2.3
10°-20°	1679.8	6.4
20°-30°	2847.4	10.8
30°-40°	4358.3	16.5
40°-50°	5811.3	22.1
50°-60°	6711.6	25.5
60°-70°	3487.6	13.2
70°-80°	741.4	2.8
80°-90°	96.0	0.4
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°	26337.9	100.0
0°-180°	26337.9	100.0

**Coefficient of Utilization**



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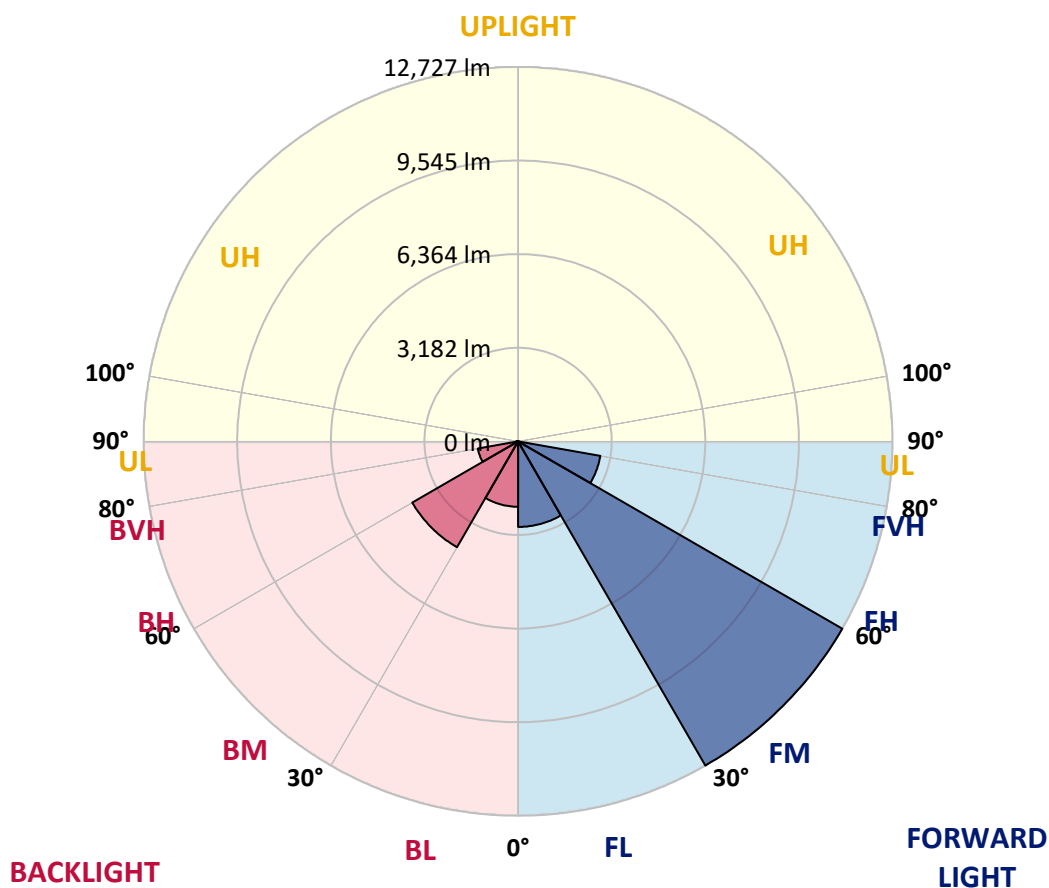
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2908.3	11.0			
FM (30°-60°)	12727.2	48.3			
FH (60°-80°)	2839.9	10.8			G2/5000
FVH (80°-90°)	33.5	0.1			G1/100
BL (0°-30°)	2223.4	8.4	B3/2500		
BM (30°-60°)	4154.0	15.8	B3/5000		
BH (60°-80°)	1389.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.6	0.2			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1
2.5°	6230.0	6217.0	6221.3	6238.6	6303.2	6350.6	6400.1	6445.3	6488.4	6501.3	6512.1
5°	6008.2	5984.5	5990.9	6018.9	6094.3	6174.0	6262.3	6369.9	6473.3	6507.8	6553.0
7.5°	5851.0	5846.6	5857.4	5900.5	5980.2	6055.5	6169.7	6322.6	6501.3	6559.4	6639.1
10°	5642.1	5633.5	5676.5	5764.8	5896.2	6016.8	6152.4	6333.3	6583.1	6669.3	6792.0
12.5°	5476.3	5471.9	5517.2	5639.9	5807.9	5999.5	6186.9	6389.3	6693.0	6811.4	6962.1
15°	5573.2	5553.8	5555.9	5642.1	5792.8	6018.9	6273.0	6490.5	6802.8	6953.5	7147.3
17.5°	5855.3	5820.8	5795.0	5810.0	5896.2	6130.9	6404.4	6626.2	6929.8	7106.4	7343.3
20°	6245.0	6225.7	6154.6	6107.2	6126.6	6333.3	6611.1	6817.9	7095.7	7293.8	7547.9
22.5°	6768.3	6721.0	6624.0	6548.7	6490.5	6652.0	6908.3	7087.0	7326.1	7532.8	7797.7
25°	7416.5	7347.6	7194.7	7076.3	6951.4	7117.2	7345.5	7481.1	7642.6	7834.3	8086.2
27.5°	8077.6	8019.5	7849.4	7690.0	7535.0	7638.3	7909.7	7987.2	7970.0	8109.9	8325.3
30°	8781.8	8708.6	8547.1	8374.8	8174.5	8241.3	8484.6	8523.4	8340.4	8456.6	8603.1
32.5°	9524.8	9453.7	9313.7	9113.4	8887.3	8913.2	8979.9	9016.5	8842.1	8908.9	9020.8
35°	10280.6	10213.9	10071.7	9873.6	9707.8	9550.6	9382.6	9529.1	9427.9	9557.1	9548.4
37.5°	10971.9	10905.1	10816.8	10663.9	10379.7	10069.6	9682.0	9862.9	10020.1	10183.7	10155.7
40°	11439.2	11394.0	11415.5	11391.8	11025.7	10412.0	9828.4	10026.5	10455.1	10735.0	10719.9
42.5°	11841.9	11796.7	11921.6	12012.0	11581.3	10728.5	9899.5	10089.0	10732.9	11170.0	11148.5
45°	12020.6	12007.7	12214.4	12500.8	12089.5	11064.5	10082.5	10218.2	10943.9	11503.8	11422.0
47.5°	11807.4	11852.6	12259.7	12744.2	12511.6	11462.9	10457.2	10491.7	11219.5	11865.6	11635.2
50°	11383.2	11482.3	12031.4	12750.6	12819.6	11912.9	10976.2	10890.1	11589.9	12251.0	11747.1
52.5°	10765.2	10868.5	11764.4	12701.1	12996.1	12434.1	11667.5	11544.7	12057.2	12636.5	11766.5
55°	9346.0	9486.0	11152.8	12589.1	13168.4	12907.8	12447.0	12197.2	12660.2	13166.3	11958.2
57.5°	8107.8	8181.0	9662.6	12091.7	13202.9	13256.7	13002.6	12705.4	13258.9	13739.1	12173.5
60°	5950.0	5967.2	7300.2	10005.0	12145.5	13054.3	12957.4	12515.9	12974.6	13280.4	11187.2
62.5°	3361.6	3363.7	4427.5	6677.9	9072.5	10640.3	10700.5	10310.8	9925.3	10015.7	7786.9
65°	1261.9	1380.4	2022.1	3281.9	5230.8	6281.6	6531.4	6621.9	5980.2	5581.8	4175.6
67.5°	844.2	872.2	1180.1	1688.3	2327.9	2687.5	3006.2	3014.8	2205.1	1966.1	1645.2
70°	643.9	671.9	928.1	1208.1	1180.1	1089.7	1177.9	1145.6	1184.4	1216.7	1251.2
72.5°	480.2	508.2	719.3	852.8	708.5	697.7	790.3	878.6	960.4	994.9	1048.7
75°	318.7	340.2	484.5	456.5	391.9	463.0	577.1	665.4	712.8	753.7	794.6
77.5°	202.4	217.5	258.4	208.9	217.5	271.3	335.9	415.6	460.8	501.8	523.3
80°	92.6	90.4	88.3	99.1	122.7	159.4	202.4	249.8	284.3	301.5	314.4
82.5°	36.6	40.9	45.2	53.8	66.8	86.1	114.1	146.4	174.4	178.7	189.5
85°	15.1	17.2	19.4	23.7	30.1	38.8	47.4	66.8	84.0	90.4	96.9
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	6.5	10.8	19.4	21.5	23.7
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°	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1	6527.1
2.5°	6570.2	6542.2	6589.6	6621.9	6652.0	6619.7	6609.0	6581.0	6576.7	6576.7	6591.7
5°	6630.5	6611.1	6660.7	6680.0	6677.9	6606.8	6563.7	6507.8	6479.8	6479.8	6484.1
7.5°	6738.2	6727.4	6755.4	6725.3	6656.3	6512.1	6369.9	6251.5	6171.8	6130.9	6143.8
10°	6916.9	6904.0	6880.3	6768.3	6570.2	6270.9	5980.2	5764.8	5635.6	5562.4	5566.7
12.5°	7091.3	7069.8	6985.8	6738.2	6331.2	5855.3	5474.1	5232.9	5090.8	5004.6	4985.3
15°	7283.0	7227.0	7046.1	6583.1	5941.4	5347.0	4948.7	4688.1	4535.2	4483.5	4481.4
17.5°	7466.0	7367.0	7039.7	6307.5	5474.1	4815.1	4414.6	4253.1	4227.2	4250.9	4257.4
20°	7651.2	7491.9	6968.6	5926.3	4918.5	4285.4	4078.7	4145.4	4242.3	4306.9	4322.0
22.5°	7842.9	7595.3	6807.1	5435.3	4332.8	3927.9	4014.1	4160.5	4281.1	4367.2	4375.8
25°	8058.3	7692.2	6565.9	4834.5	3863.3	3828.9	3999.0	4154.0	4283.2	4382.3	4399.5
27.5°	8181.0	7694.3	6227.8	4216.5	3648.0	3790.1	3962.4	4108.8	4238.0	4345.7	4365.1
30°	8301.6	7636.2	5691.6	3714.7	3585.5	3744.9	3899.9	4035.6	4158.3	4263.9	4287.5
32.5°	8471.7	7582.3	5073.6	3426.2	3548.9	3701.8	3828.9	3949.4	4044.2	4091.6	4104.5
35°	8682.8	7513.4	4416.7	3301.3	3525.2	3667.3	3779.3	3843.9	3721.2	3695.3	3723.3
37.5°	8977.8	7448.8	3762.1	3247.4	3510.1	3654.4	3753.5	3587.7	3436.9	3376.6	3398.2
40°	9296.5	7412.2	3318.5	3204.4	3516.6	3667.3	3645.8	3400.3	3182.8	3055.8	3051.5
42.5°	9567.8	7356.2	3034.2	3176.4	3533.8	3716.9	3499.4	3234.5	2911.5	2836.1	2838.3
45°	9750.9	7214.1	2883.5	3146.2	3548.9	3727.6	3430.5	3006.2	2775.8	2728.4	2726.3
47.5°	9826.2	6955.7	2786.6	3098.8	3546.8	3639.3	3290.5	2911.5	2681.1	2668.1	2676.8
50°	9776.7	6531.4	2687.5	3006.2	3495.1	3546.8	3129.0	2827.5	2616.5	2687.5	2739.2
52.5°	9593.7	5982.3	2569.1	2879.2	3402.5	3441.2	3047.1	2775.8	2569.1	2663.8	2704.7
55°	9546.3	5536.5	2418.3	2713.4	3264.6	3253.9	2961.0	2750.0	2536.8	2500.2	2506.6
57.5°	9483.8	5101.5	2168.5	2416.2	2915.8	2933.0	2879.2	2719.8	2452.8	2442.0	2452.8
60°	8239.1	3910.7	1933.8	2084.6	2394.6	2487.2	2786.6	2663.8	2317.1	2271.9	2269.7
62.5°	5381.5	2368.8	1720.6	1817.5	1951.0	2058.7	2541.1	2502.3	2168.5	2140.5	2159.9
65°	2894.3	1688.3	1565.6	1623.7	1696.9	1778.8	2106.1	2228.8	1959.6	1860.6	1862.7
67.5°	1479.4	1436.4	1449.3	1490.2	1546.2	1587.1	1699.1	1806.8	1671.1	1587.1	1584.9
70°	1266.2	1300.7	1320.1	1343.8	1380.4	1373.9	1384.7	1404.1	1393.3	1352.4	1350.2
72.5°	1078.9	1132.7	1137.0	1141.3	1154.3	1124.1	1104.7	1072.4	1074.6	1081.0	1083.2
75°	820.5	872.2	885.1	878.6	891.5	852.8	826.9	794.6	755.9	749.4	753.7
77.5°	534.1	575.0	594.4	590.0	596.5	566.4	553.4	519.0	473.8	456.5	456.5
80°	323.0	346.7	361.8	366.1	372.5	351.0	329.5	299.3	279.9	260.6	260.6
82.5°	196.0	211.0	221.8	221.8	228.3	204.6	187.4	165.8	157.2	140.0	140.0
85°	99.1	109.8	114.1	112.0	107.7	88.3	81.8	71.1	66.8	58.1	58.1
87.5°	23.7	30.1	30.1	21.5	21.5	10.8	6.5	2.2	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)