

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: P640257

Luminaire Tested: GWS-SA5D-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-740-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

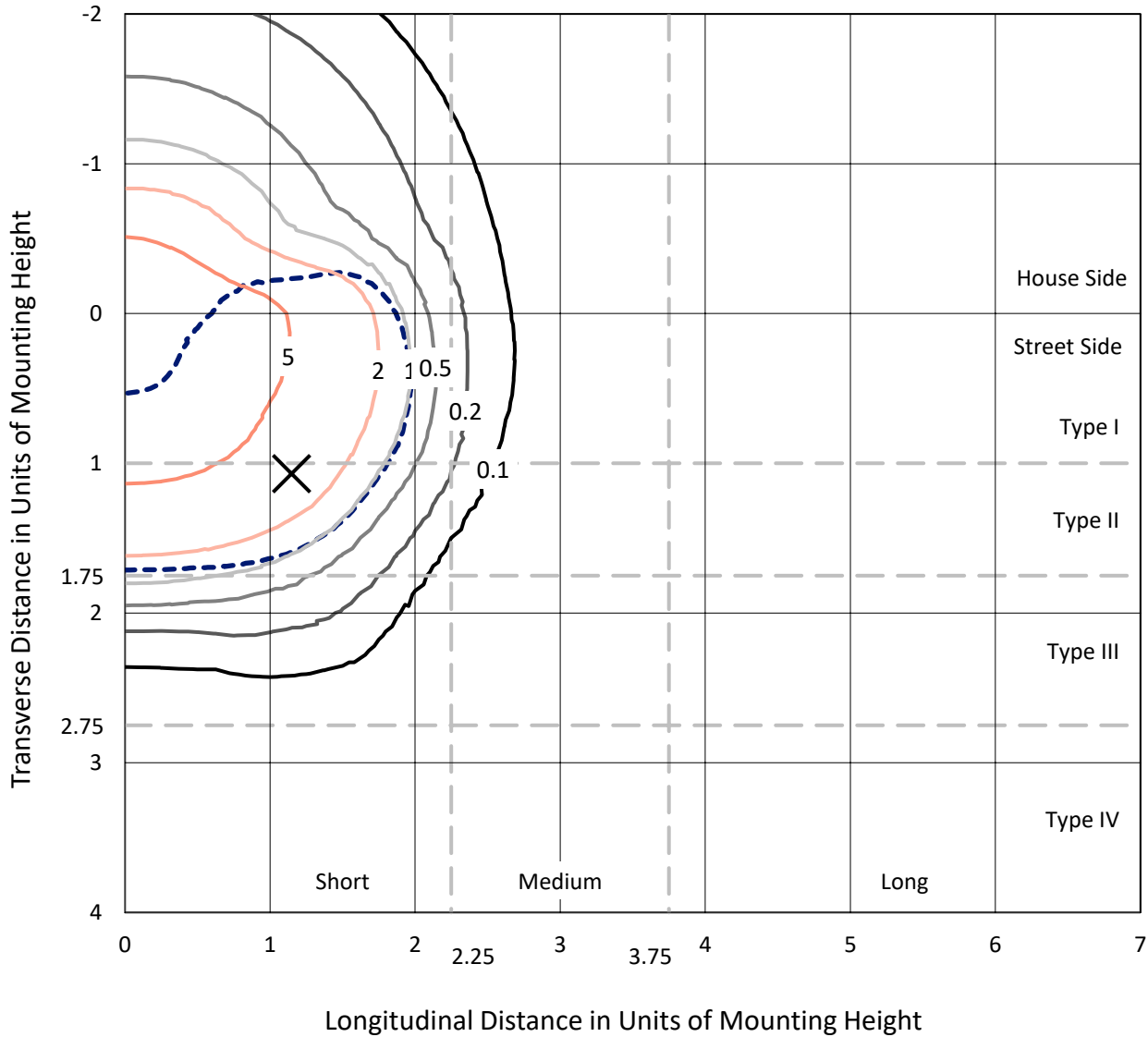
Lumens per Lamp: N/A  
Luminaire Lumens: 25640.1 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

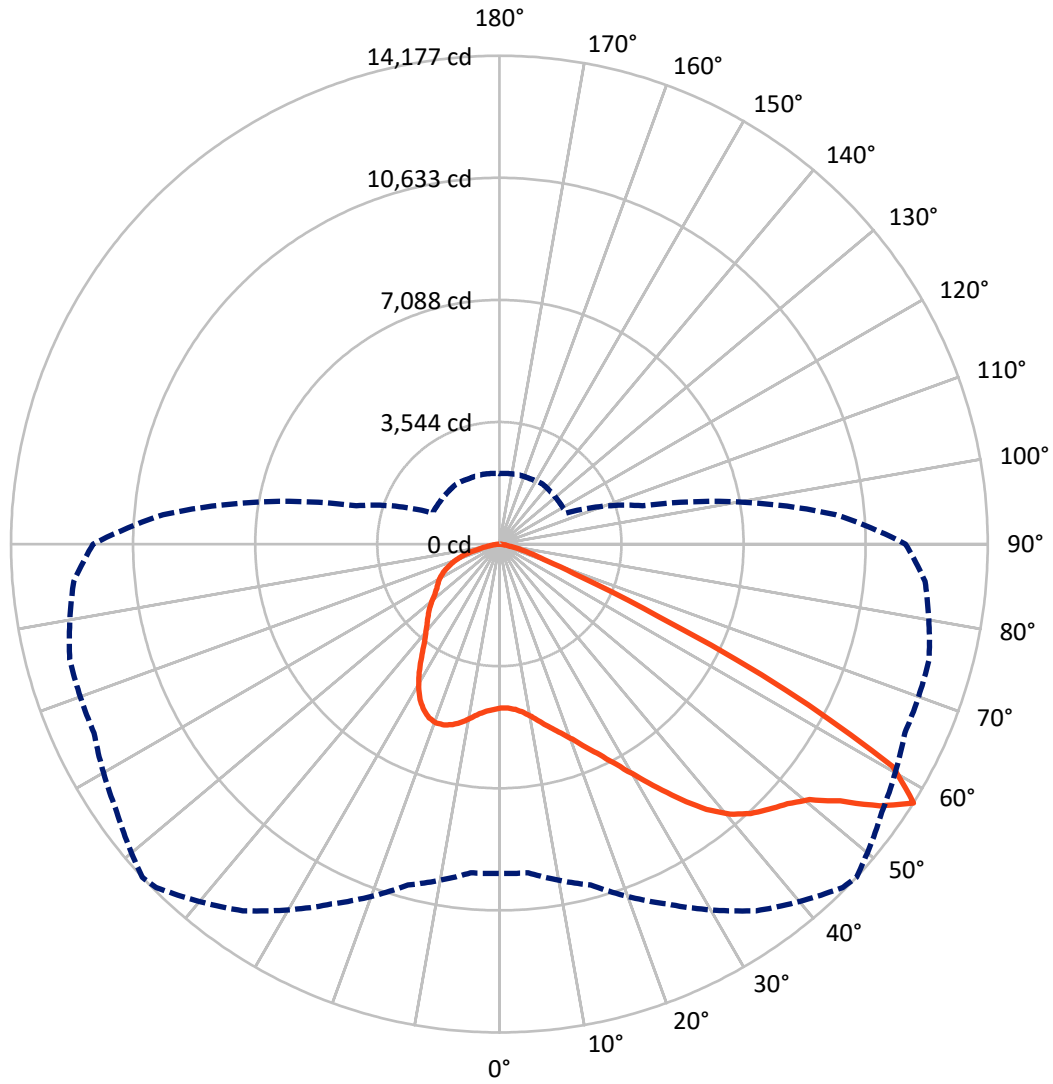
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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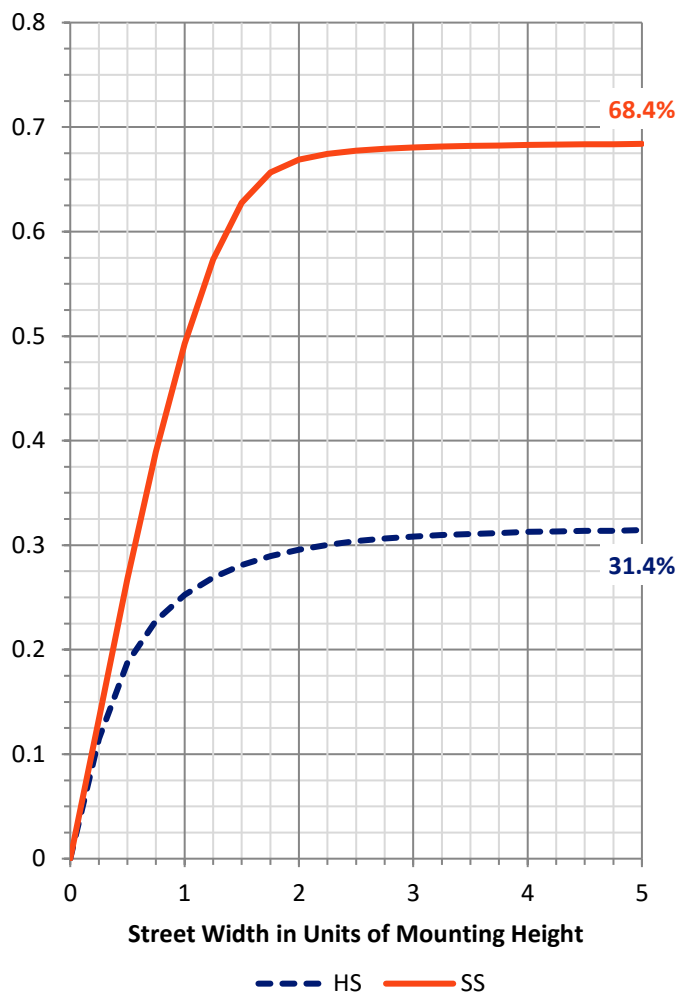
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8115.0	0.0	8115.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	17525.1	0.0	17525.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	25640.1	0.0	25640.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.0	1.8
10°-20°	1542.5	6.0
20°-30°	2777.5	10.8
30°-40°	4195.1	16.4
40°-50°	5649.2	22.0
50°-60°	6788.3	26.5
60°-70°	3306.0	12.9
70°-80°	814.5	3.2
80°-90°	97.9	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°	25640.1	100.0
0°-180°	25640.1	100.0

**Coefficient of Utilization**

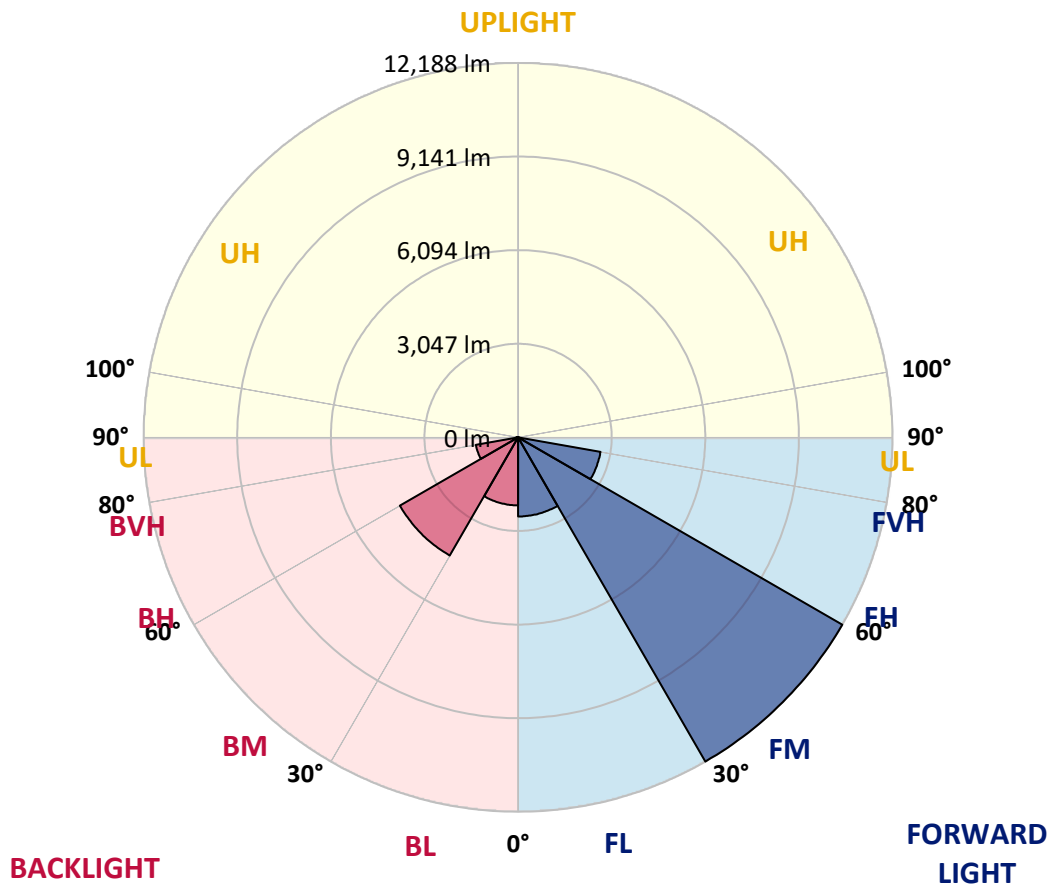


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2575.4	10.0			
FM (30°-60°)	12188.1	47.5			
FH (60°-80°)	2724.8	10.6			G2/5000
FVH (80°-90°)	36.8	0.1			G1/100
BL (0°-30°)	2213.6	8.6	B3/2500		
BM (30°-60°)	4444.6	17.3	B3/5000		
BH (60°-80°)	1395.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	61.1	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°	47°	55°	65°	75°	85°
0°	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0
2.5°	4746.4	4744.2	4744.2	4757.1	4757.1	4761.5	4767.9	4774.4	4776.5	4765.8	4742.1
5°	4798.1	4798.1	4798.1	4808.8	4808.8	4813.1	4821.8	4823.9	4821.8	4804.5	4780.8
7.5°	4879.9	4879.9	4882.1	4895.0	4905.7	4912.2	4927.3	4925.1	4918.7	4890.7	4860.5
10°	5013.4	5019.9	5026.3	5041.4	5062.9	5078.0	5088.8	5088.8	5080.2	5037.1	4998.3
12.5°	5202.9	5211.5	5218.0	5230.9	5248.2	5274.0	5297.7	5297.7	5286.9	5233.1	5174.9
15°	5424.7	5433.4	5431.2	5435.5	5467.8	5504.4	5523.8	5536.7	5541.0	5465.7	5375.2
17.5°	5678.9	5687.5	5678.9	5665.9	5670.2	5728.4	5762.8	5810.2	5838.2	5737.0	5592.7
20°	5909.3	5900.7	5900.7	5909.3	5922.2	5993.3	6045.0	6122.5	6156.9	6034.2	5810.2
22.5°	6152.6	6172.0	6163.4	6163.4	6215.1	6333.5	6396.0	6497.2	6533.8	6374.4	6073.0
25°	6467.0	6484.3	6480.0	6484.3	6544.6	6712.6	6775.0	6962.4	6999.0	6770.7	6363.7
27.5°	6811.6	6839.6	6852.5	6848.2	6945.1	7164.8	7242.3	7502.9	7569.7	7214.3	6673.8
30°	7259.5	7289.7	7300.5	7296.2	7410.3	7709.6	7797.9	8095.1	8189.9	7739.8	7067.9
32.5°	7778.5	7808.7	7841.0	7853.9	8000.4	8306.2	8433.2	8741.2	8876.8	8347.1	7543.8
35°	8293.2	8319.1	8381.5	8482.8	8683.0	8995.3	9107.3	9410.9	9542.3	8978.1	8118.8
37.5°	8861.8	8879.0	8932.8	9072.8	9361.4	9658.6	9770.6	10061.3	10076.4	9587.5	8769.2
40°	9484.1	9484.1	9473.4	9611.2	9912.7	10212.0	10308.9	10476.9	10388.6	10057.0	9402.3
42.5°	10011.8	10003.1	10011.8	10141.0	10364.9	10608.3	10692.3	10660.0	10548.0	10416.6	9975.1
45°	10487.7	10494.2	10571.7	10670.7	10787.0	10931.3	10980.8	10797.8	10696.6	10705.2	10433.9
47.5°	10810.7	10817.2	10998.1	11163.9	11235.0	11280.2	11258.7	11004.5	10952.9	11049.8	10787.0
50°	10853.8	10888.2	11200.5	11540.8	11717.4	11723.8	11663.5	11353.4	11338.3	11448.2	10976.5
52.5°	10862.4	10896.9	11286.6	11900.4	12359.1	12456.0	12387.1	12064.1	11906.9	11797.0	11209.1
55°	10830.1	10868.9	11299.6	12141.6	13020.2	13407.9	13414.3	12957.8	12456.0	12382.8	11872.4
57.5°	9561.7	9576.7	10244.3	11527.8	12994.4	14092.7	14176.7	13556.5	12983.6	12914.7	12404.3
60°	6660.9	6721.2	7446.9	9141.7	10916.2	12852.3	13123.6	12942.7	12559.4	12057.6	10642.7
62.5°	3335.8	3387.5	4115.4	5717.6	7528.7	9057.7	9348.5	9540.1	9630.6	9092.2	7246.6
65°	1436.4	1475.2	1927.4	2986.9	4261.8	5000.5	5101.7	5332.1	5896.4	5261.1	3904.3
67.5°	960.5	986.3	1216.7	1821.9	2511.0	2558.4	2543.3	2592.8	2715.6	2241.8	1763.7
70°	736.5	758.0	913.1	1335.2	1804.7	1544.1	1462.2	1326.6	1440.7	1468.7	1429.9
72.5°	534.1	551.3	667.6	910.9	1130.6	986.3	973.4	1042.3	1197.4	1240.4	1216.7
75°	344.6	353.2	424.2	499.6	583.6	633.1	659.0	783.9	941.1	973.4	945.4
77.5°	230.4	236.9	277.8	320.9	331.6	333.8	342.4	398.4	506.1	566.4	559.9
80°	120.6	120.6	135.7	135.7	155.1	185.2	193.8	230.4	280.0	310.1	312.3
82.5°	47.4	49.5	58.1	64.6	77.5	94.8	101.2	120.6	146.4	168.0	187.4
85°	19.4	21.5	23.7	28.0	34.5	43.1	45.2	51.7	68.9	86.1	96.9
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	6.5	8.6	10.8	19.4	25.8
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°	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0	4755.0
2.5°	4770.1	4742.1	4770.1	4778.7	4802.4	4811.0	4795.9	4793.8	4793.8	4772.2	4765.8
5°	4802.4	4776.5	4804.5	4817.4	4851.9	4873.4	4877.7	4895.0	4905.7	4897.1	4895.0
7.5°	4882.1	4849.7	4879.9	4899.3	4944.5	4979.0	4994.0	5032.8	5060.8	5056.5	5054.3
10°	5022.0	4979.0	5013.4	5045.7	5095.3	5136.2	5138.3	5159.9	5187.9	5179.2	5174.9
12.5°	5183.5	5142.6	5181.4	5213.7	5271.8	5289.1	5261.1	5252.5	5256.8	5246.0	5237.4
15°	5381.7	5323.5	5358.0	5394.6	5426.9	5407.5	5347.2	5323.5	5321.4	5306.3	5297.7
17.5°	5579.8	5506.6	5532.4	5551.8	5536.7	5476.4	5401.1	5360.1	5340.8	5310.6	5302.0
20°	5775.8	5683.2	5678.9	5663.8	5594.9	5485.0	5383.8	5302.0	5252.5	5211.5	5196.5
22.5°	5999.7	5870.5	5805.9	5737.0	5586.3	5407.5	5254.6	5138.3	5058.6	5007.0	4989.7
25°	6240.9	6057.9	5924.4	5786.5	5500.1	5241.7	5028.5	4869.1	4774.4	4718.4	4699.0
27.5°	6480.0	6228.0	6027.7	5793.0	5327.8	5002.6	4716.2	4500.9	4406.1	4360.9	4345.8
30°	6803.0	6454.1	6150.5	5709.0	5101.7	4671.0	4313.5	4096.0	4033.6	4001.3	3988.3
32.5°	7175.6	6740.5	6314.1	5532.4	4813.1	4283.4	3906.5	3755.8	3712.7	3650.2	3648.1
35°	7666.6	7149.7	6469.2	5271.8	4449.2	3867.7	3594.2	3486.6	3409.0	3310.0	3301.4
37.5°	8239.4	7660.1	6553.2	4940.2	4024.9	3525.3	3361.7	3241.1	3116.2	2984.8	2967.6
40°	8831.6	8256.6	6559.7	4548.3	3609.3	3299.2	3161.4	3004.2	2849.1	2702.7	2683.3
42.5°	9454.0	8812.2	6445.5	4096.0	3269.1	3103.2	2963.3	2765.1	2590.7	2491.6	2480.9
45°	10009.6	9260.2	6187.1	3620.1	3017.1	2939.6	2760.8	2547.6	2455.0	2384.0	2368.9
47.5°	10446.8	9557.4	5838.2	3193.7	2812.5	2771.6	2539.0	2429.2	2358.1	2293.5	2278.4
50°	10662.1	9624.1	5383.8	2847.0	2623.0	2573.5	2414.1	2330.1	2282.7	2231.1	2218.1
52.5°	10929.2	9699.5	4991.9	2556.2	2437.8	2371.0	2310.7	2244.0	2209.5	2177.2	2166.5
55°	11542.9	9983.8	4785.1	2323.7	2261.2	2231.1	2222.4	2166.5	2155.7	2134.1	2114.8
57.5°	11792.7	9800.7	4296.3	2134.1	2121.2	2125.5	2147.1	2095.4	2084.6	2058.8	2045.9
60°	9484.1	7408.1	2909.4	1970.5	2004.9	2032.9	2054.5	2002.8	1987.7	1983.4	1966.2
62.5°	6077.3	4556.9	2030.8	1817.6	1869.3	1903.7	1916.6	1867.1	1856.3	1890.8	1893.0
65°	3163.5	2483.0	1647.5	1653.9	1697.0	1748.7	1774.5	1757.3	1753.0	1789.6	1791.7
67.5°	1615.1	1518.2	1436.4	1460.1	1494.5	1561.3	1621.6	1697.0	1722.8	1727.1	1729.3
70°	1376.1	1333.0	1292.1	1307.2	1343.8	1380.4	1438.6	1475.2	1432.1	1421.3	1417.0
72.5°	1171.5	1139.2	1119.8	1137.1	1156.4	1150.0	1132.8	1150.0	1156.4	1158.6	1160.8
75°	910.9	887.3	872.2	874.3	874.3	850.6	818.3	799.0	777.4	760.2	760.2
77.5°	557.8	562.1	577.1	575.0	572.8	564.2	531.9	514.7	463.0	447.9	447.9
80°	318.7	325.2	340.3	344.6	344.6	333.8	301.5	282.1	258.4	247.7	245.5
82.5°	193.8	202.4	211.0	215.4	217.5	204.6	176.6	161.5	148.6	137.8	137.8
85°	101.2	105.5	114.1	116.3	109.8	96.9	81.8	75.4	62.5	60.3	60.3
87.5°	28.0	30.1	34.5	28.0	25.8	19.4	10.8	8.6	4.3	2.2	2.2
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)