

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: P639754

Luminaire Tested: GWS-SA5C-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

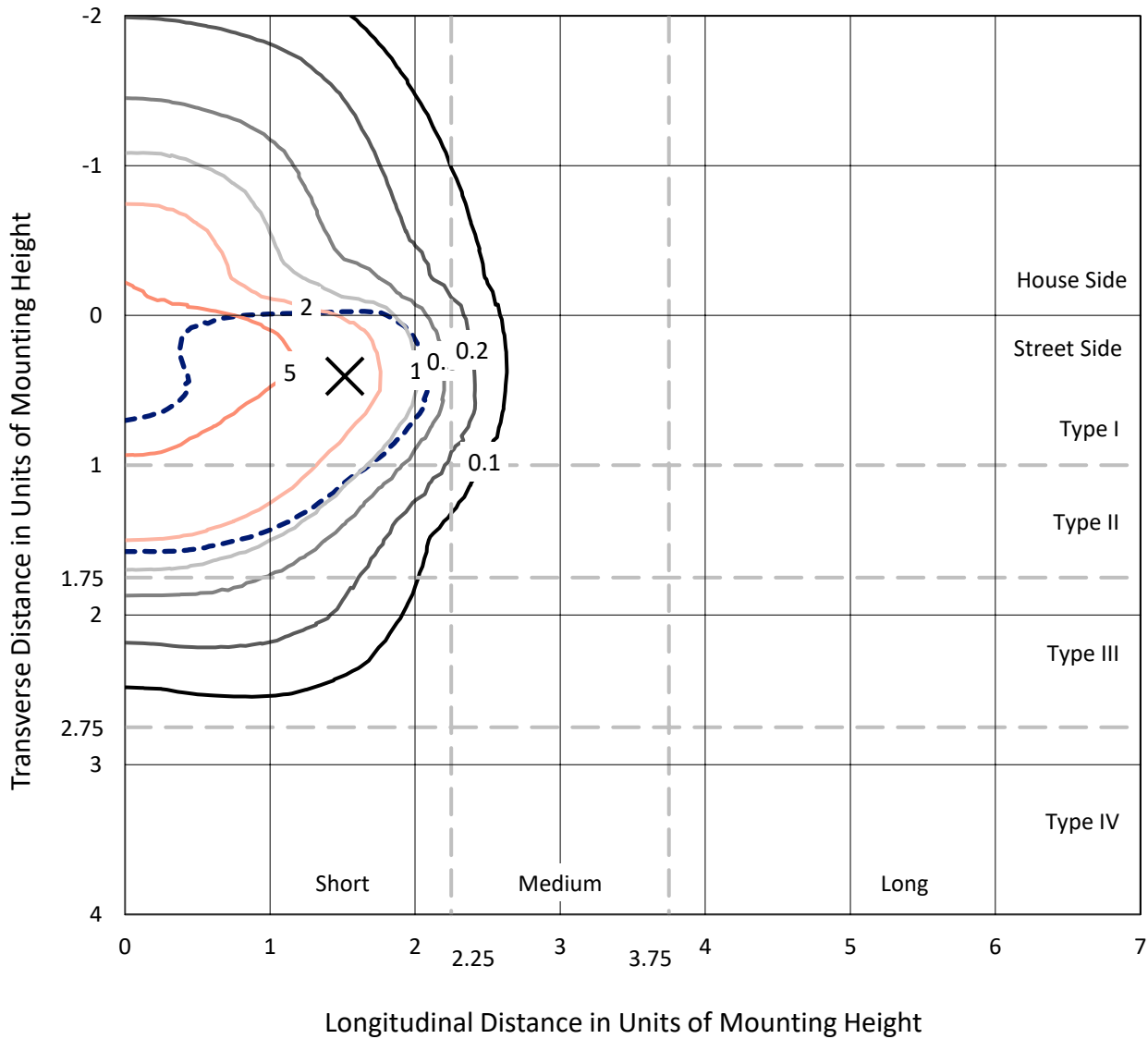
Lumens per Lamp: N/A  
Luminaire Lumens: 19853 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

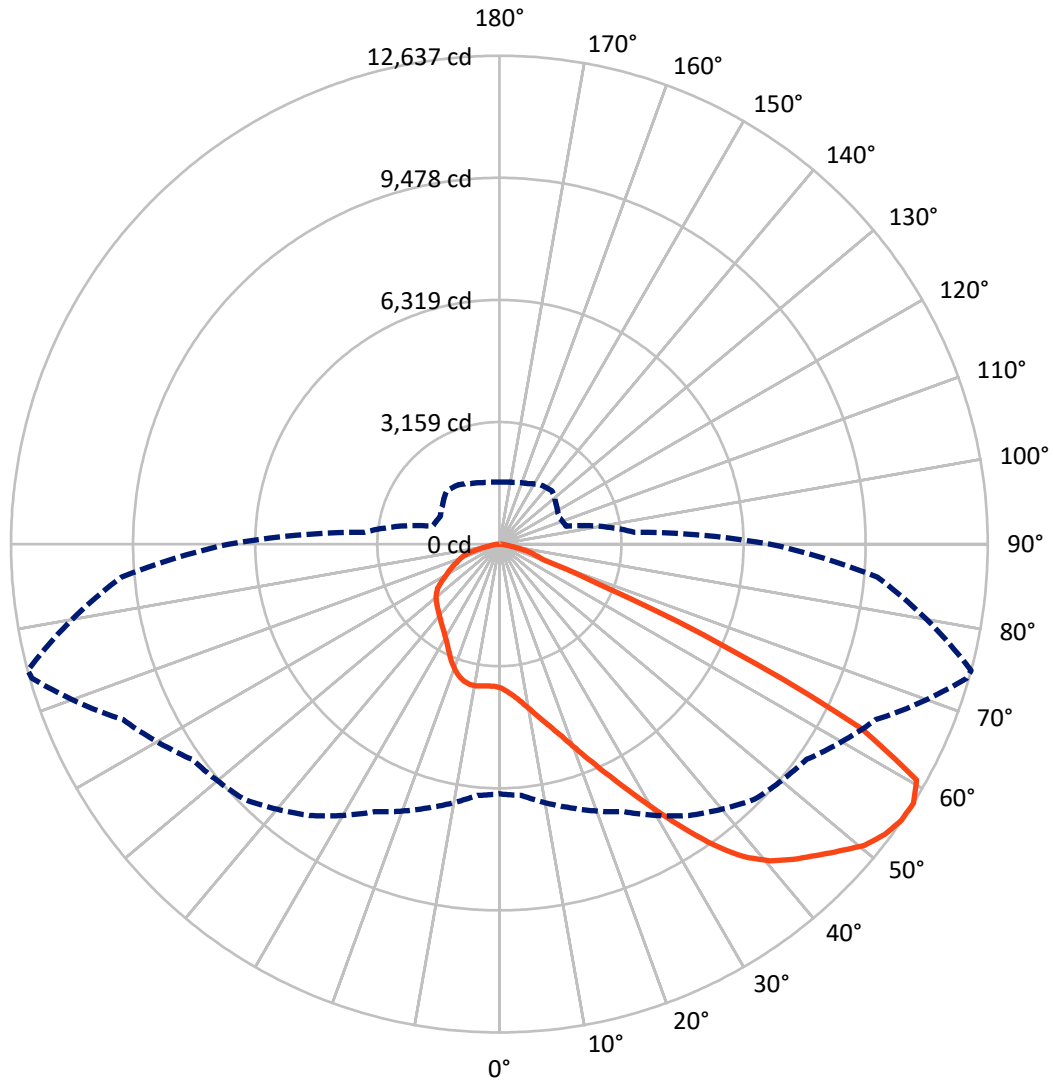
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5370.6	0.0	5370.6
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	14482.4	0.0	14482.4
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	19853.0	0.0	19853.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.1	1.9
10°-20°	1184.6	6.0
20°-30°	2100.8	10.6
30°-40°	3215.9	16.2
40°-50°	4477.9	22.6
50°-60°	5130.8	25.8
60°-70°	2636.3	13.3
70°-80°	663.7	3.3
80°-90°	71.0	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°	19853.0	100.0
0°-180°	19853.0	100.0

**Coefficient of Utilization**



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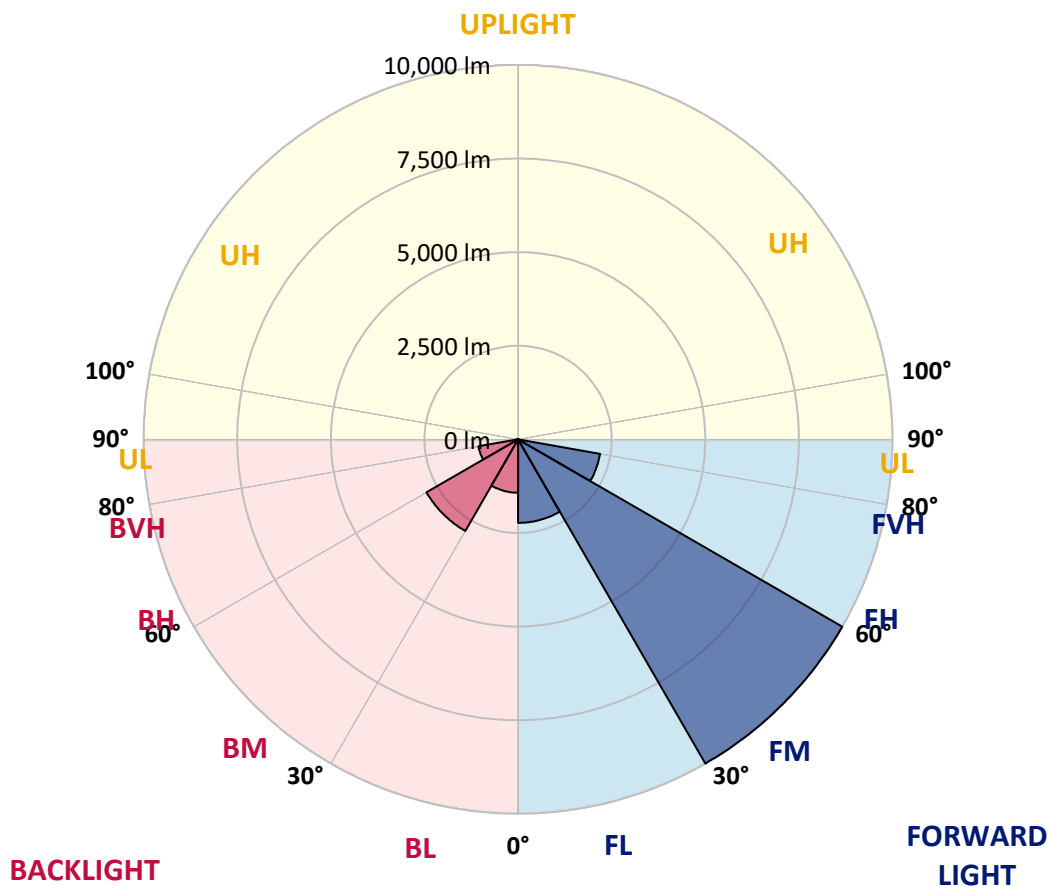
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2230.6	11.2			
FM (30°-60°)	10000.2	50.4			
FH (60°-80°)	2225.3	11.2			G2/5000
FVH (80°-90°)	26.3	0.1			G1/100
BL (0°-30°)	1426.8	7.2	B3/2500		
BM (30°-60°)	2824.5	14.2	B3/5000		
BH (60°-80°)	1074.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	44.7	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°	74°	75°	85°
0°	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0
2.5°	3994.5	4004.8	3994.5	4011.6	3977.5	3962.1	3924.5	3868.2	3823.8	3817.0	3767.5
5°	4305.2	4327.4	4313.8	4306.9	4260.8	4226.7	4170.4	4057.7	3965.5	3951.9	3854.6
7.5°	4504.9	4520.3	4520.3	4525.4	4508.4	4469.1	4409.4	4276.2	4146.5	4126.0	3979.2
10°	4571.5	4583.5	4605.7	4648.3	4682.5	4694.4	4655.2	4527.1	4368.4	4347.9	4143.0
12.5°	4586.9	4600.5	4634.7	4713.2	4807.1	4892.5	4899.3	4805.4	4627.9	4605.7	4332.5
15°	4615.9	4629.6	4675.7	4773.0	4911.2	5075.1	5175.8	5111.0	4914.6	4890.7	4547.6
17.5°	4612.5	4627.9	4696.1	4825.9	5011.9	5249.2	5443.8	5471.1	5268.0	5227.0	4791.7
20°	4604.0	4617.6	4691.0	4849.8	5080.2	5406.3	5757.9	5899.6	5681.1	5643.6	5076.8
22.5°	4672.2	4687.6	4743.9	4875.4	5116.1	5527.5	6048.1	6389.5	6171.0	6118.1	5404.6
25°	4825.9	4848.1	4882.2	4972.7	5180.9	5635.0	6345.2	6944.3	6720.7	6657.6	5761.3
27.5°	5063.2	5090.5	5138.3	5180.9	5326.0	5771.6	6640.5	7565.7	7342.1	7275.5	6138.6
30°	5353.4	5389.2	5450.7	5479.7	5578.7	5973.0	6961.4	8205.9	8076.1	7983.9	6563.7
32.5°	5754.5	5804.0	5862.1	5870.6	5930.3	6278.6	7278.9	8840.9	8839.2	8774.3	7046.8
35°	6276.9	6329.8	6341.8	6353.7	6382.7	6698.5	7663.0	9419.6	9643.2	9568.1	7572.5
37.5°	6847.0	6923.9	6942.6	6889.7	6930.7	7203.8	8094.9	9883.9	10343.1	10262.9	8081.3
40°	7456.5	7487.2	7538.4	7454.8	7506.0	7782.5	8518.3	10180.9	10865.5	10780.1	8482.4
42.5°	7893.5	7949.8	8026.6	7995.9	8024.9	8277.6	8815.3	10324.3	11237.6	11152.3	8770.9
45°	8368.0	8385.1	8434.6	8427.8	8444.9	8680.4	9028.7	10387.5	11570.5	11493.7	9016.7
47.5°	8781.1	8806.8	8839.2	8801.6	8764.1	8917.7	9202.8	10442.1	11954.6	11862.4	9274.5
50°	9178.9	9201.1	9240.3	9131.1	8991.1	9030.4	9288.1	10517.2	12314.8	12249.9	9477.6
52.5°	9252.3	9276.2	9460.6	9482.8	9303.5	9165.2	9438.4	10682.8	12526.5	12485.5	9551.0
55°	8328.8	8371.5	8738.5	9160.1	9602.2	9557.9	9679.1	10769.9	12610.1	12620.3	9682.5
57.5°	6464.7	6526.1	7062.1	7640.8	8571.2	9341.1	9709.8	10747.7	12581.1	12637.4	9817.3
60°	4240.4	4276.2	4911.2	5559.9	6524.4	7589.6	8690.7	10348.2	12323.3	12403.5	9783.2
62.5°	2560.6	2601.6	3112.0	3603.6	4172.1	4883.9	5894.5	8316.8	10329.5	10508.7	7835.4
65°	1787.3	1841.9	2289.2	2693.8	2890.1	2743.3	2985.7	4644.9	6435.6	6510.8	4788.3
67.5°	1295.7	1333.2	1700.2	2181.6	2398.4	1937.5	1476.6	2057.0	2803.0	2830.3	1975.1
70°	848.4	891.1	1224.0	1661.0	1958.0	1570.5	1104.5	1113.0	1179.6	1193.2	1147.1
72.5°	466.0	491.6	756.2	1102.8	1157.4	938.9	862.1	925.2	971.3	971.3	983.3
75°	240.7	262.9	309.0	363.6	438.7	513.8	621.4	715.3	764.8	768.2	763.1
77.5°	122.9	131.4	165.6	179.2	196.3	228.7	297.0	380.7	425.1	442.1	438.7
80°	58.0	61.5	70.0	81.9	100.7	128.0	160.5	191.2	218.5	221.9	240.7
82.5°	30.7	34.1	37.6	44.4	54.6	68.3	93.9	112.7	129.7	133.2	148.5
85°	11.9	13.7	15.4	17.1	23.9	29.0	39.3	52.9	64.9	64.9	76.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.8	8.5	11.9	11.9	20.5
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°	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0	3718.0
2.5°	3755.5	3706.0	3683.8	3648.0	3619.0	3586.5	3560.9	3542.2	3530.2	3523.4	3516.6
5°	3817.0	3741.9	3682.1	3610.4	3560.9	3513.1	3473.9	3446.6	3432.9	3422.7	3415.8
7.5°	3912.6	3811.9	3699.2	3588.3	3501.2	3424.4	3374.9	3345.8	3327.1	3320.2	3315.1
10°	4044.0	3904.1	3718.0	3542.2	3412.4	3328.8	3294.6	3281.0	3282.7	3279.3	3277.6
12.5°	4192.6	4001.4	3712.9	3460.2	3316.8	3267.3	3269.0	3291.2	3316.8	3323.7	3325.4
15°	4353.0	4097.0	3663.4	3354.4	3241.7	3246.8	3291.2	3344.1	3391.9	3410.7	3414.1
17.5°	4527.1	4177.2	3572.9	3238.3	3180.3	3234.9	3316.8	3403.9	3473.9	3504.6	3513.1
20°	4721.7	4245.5	3444.9	3123.9	3122.2	3212.7	3332.2	3446.6	3535.3	3576.3	3583.1
22.5°	4928.3	4288.2	3287.8	3018.1	3062.5	3183.7	3320.2	3439.7	3533.6	3574.6	3583.1
25°	5136.6	4301.8	3115.4	2920.8	3001.0	3137.6	3262.2	3357.8	3446.6	3482.4	3489.2
27.5°	5331.2	4262.5	2951.5	2837.1	2944.7	3069.3	3153.0	3204.2	3265.6	3292.9	3298.1
30°	5529.2	4184.0	2813.2	2770.6	2881.5	2975.4	3013.0	3016.4	3040.3	3040.3	3043.7
32.5°	5728.9	4067.9	2692.0	2705.7	2803.0	2864.5	2869.6	2830.3	2801.3	2753.5	2751.8
35°	5959.4	3950.2	2593.0	2632.3	2710.8	2748.4	2733.0	2657.9	2587.9	2509.4	2506.0
37.5°	6172.8	3828.9	2509.4	2557.2	2606.7	2634.0	2598.2	2507.7	2449.6	2369.4	2357.5
40°	6348.6	3719.7	2429.2	2478.7	2502.6	2526.5	2468.4	2395.0	2403.5	2359.2	2357.5
42.5°	6451.0	3613.9	2354.0	2391.6	2407.0	2424.0	2372.8	2318.2	2364.3	2330.1	2331.9
45°	6526.1	3521.7	2285.8	2299.4	2337.0	2362.6	2314.8	2253.3	2263.6	2132.1	2101.4
47.5°	6611.5	3470.5	2220.9	2207.2	2273.8	2318.2	2244.8	2156.0	2094.6	1964.8	1952.9
50°	6701.9	3451.7	2152.6	2115.1	2195.3	2238.0	2152.6	2041.7	1961.4	1891.4	1884.6
52.5°	6732.7	3450.0	2067.3	2004.1	2084.3	2144.1	2072.4	1959.7	1864.1	1795.8	1792.4
55°	6853.9	3499.5	1958.0	1852.2	1927.3	2050.2	1997.3	1835.1	1758.3	1727.6	1724.1
57.5°	6995.6	3508.0	1785.6	1686.6	1790.7	1935.8	1869.2	1729.3	1645.6	1608.1	1604.6
60°	6937.5	3298.1	1601.2	1560.3	1674.6	1828.3	1766.8	1645.6	1548.3	1512.5	1509.0
62.5°	5286.8	2328.4	1466.4	1451.0	1550.0	1672.9	1661.0	1534.7	1442.5	1416.9	1413.5
65°	3180.3	1635.4	1336.6	1334.9	1404.9	1522.7	1538.1	1435.6	1338.3	1302.5	1302.5
67.5°	1572.2	1251.3	1189.8	1181.3	1225.7	1309.3	1374.2	1290.5	1208.6	1174.5	1169.3
70°	1111.3	1102.8	1082.3	1058.4	1066.9	1101.1	1128.4	1058.4	971.3	937.2	930.4
72.5°	961.1	962.8	949.1	930.4	923.5	899.6	875.7	824.5	771.6	735.7	739.2
75°	746.0	749.4	757.9	751.1	732.3	706.7	681.1	616.3	573.6	539.4	532.6
77.5°	435.3	452.4	479.7	472.9	476.3	440.4	430.2	367.0	327.8	303.9	298.7
80°	245.8	256.1	268.0	276.5	266.3	250.9	228.7	194.6	182.7	165.6	162.2
82.5°	148.5	158.8	163.9	170.7	167.3	146.8	129.7	107.5	97.3	88.8	87.1
85°	75.1	81.9	87.1	90.5	80.2	66.6	59.7	47.8	41.0	35.8	35.8
87.5°	18.8	20.5	23.9	20.5	18.8	8.5	6.8	1.7	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)