

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: P639767

Luminaire Tested: GWS-SA5C-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

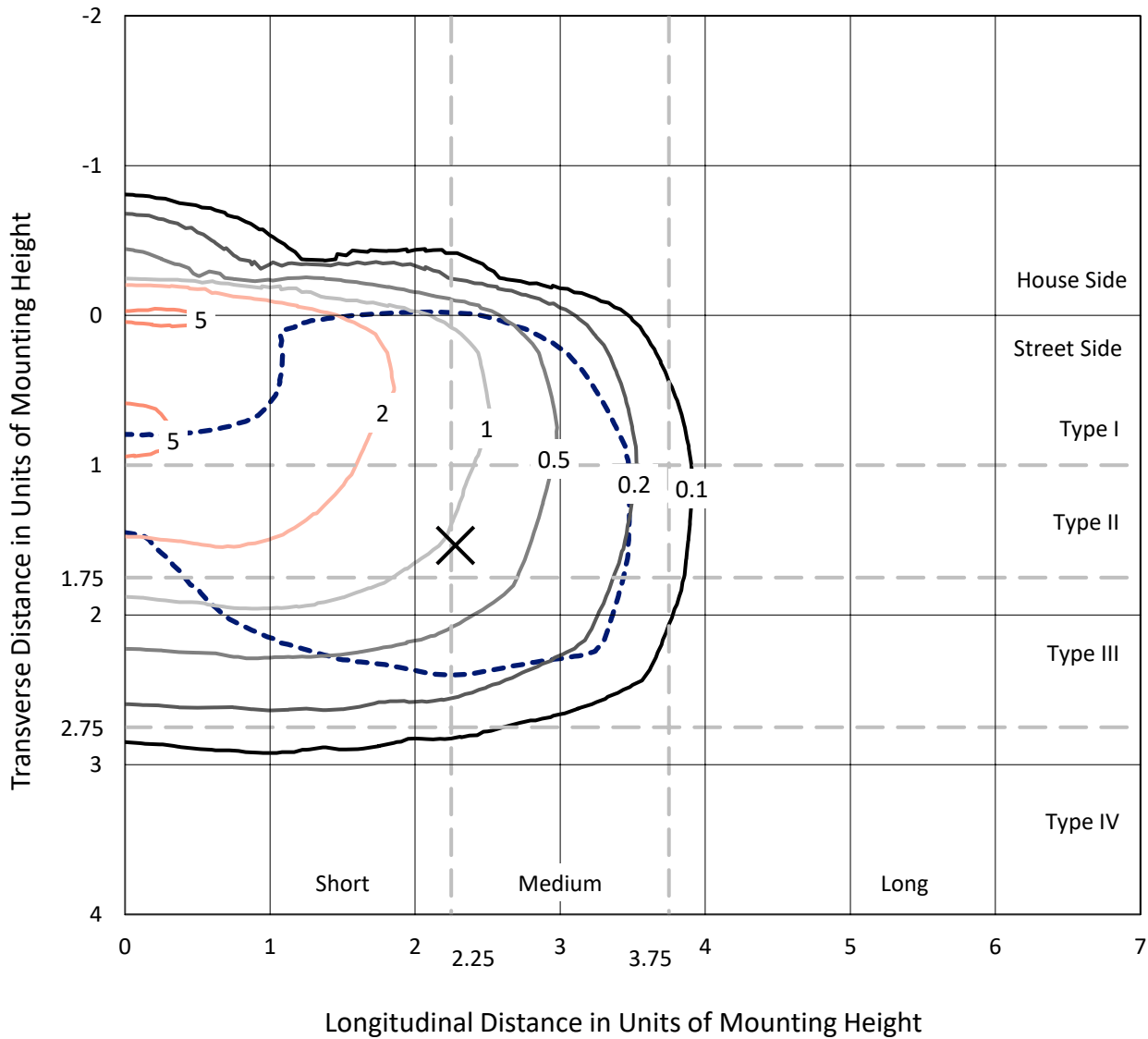
Lumens per Lamp: N/A  
Luminaire Lumens: 18641 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

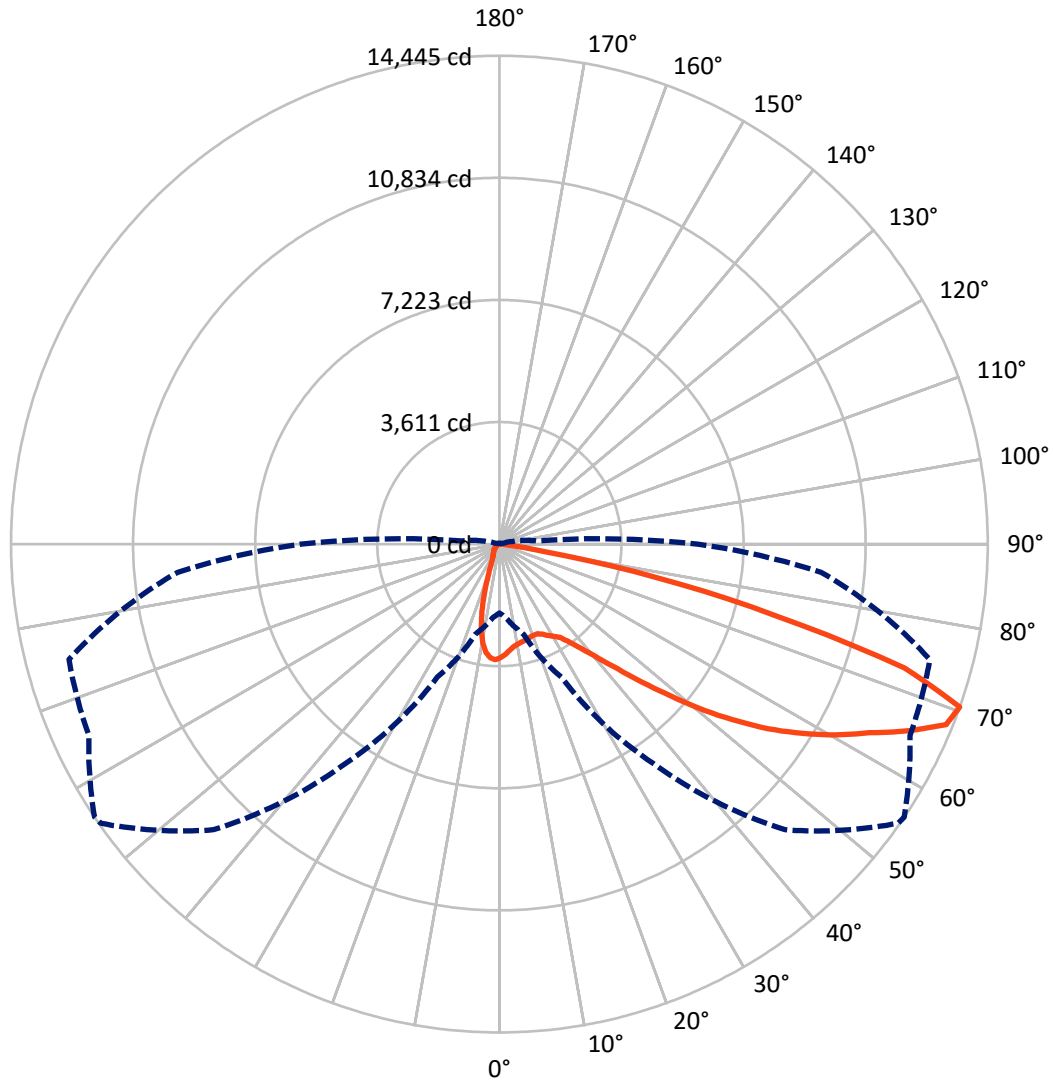
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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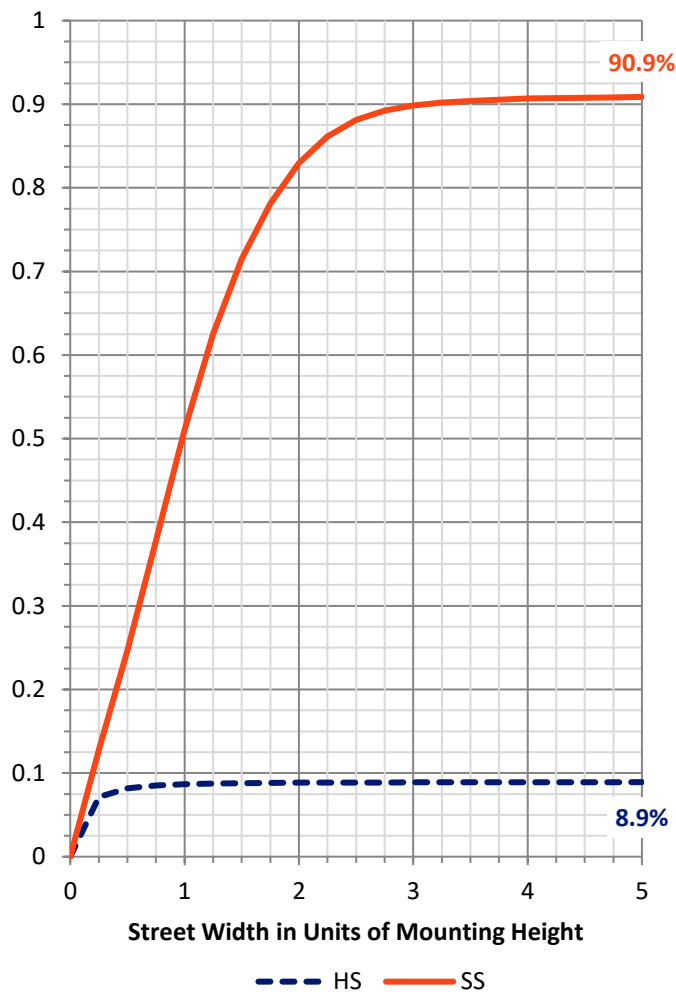
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1674.3	0.0	1674.3
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	16966.7	0.0	16966.7
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	18641.0	0.0	18641.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.6	1.5
10°-20°	649.1	3.5
20°-30°	1028.1	5.5
30°-40°	1773.0	9.5
40°-50°	2994.0	16.1
50°-60°	4399.1	23.6
60°-70°	5215.4	28.0
70°-80°	2224.0	11.9
80°-90°	69.8	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°	18641.0	100.0
0°-180°	18641.0	100.0

**Coefficient of Utilization**



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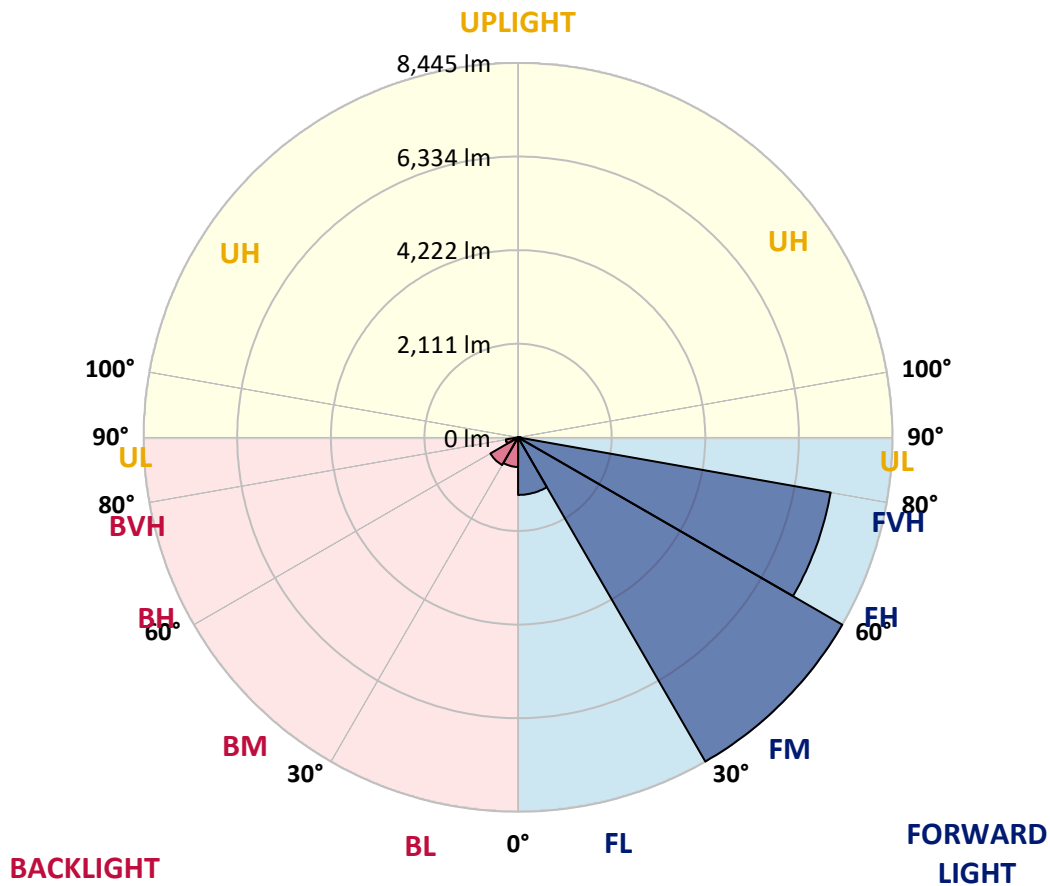
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.9	7.0			
FM (30°-60°)	8444.9	45.3			
FH (60°-80°)	7160.1	38.4			G3/7500
FVH (80°-90°)	62.7	0.3			G1/100
BL (0°-30°)	666.8	3.6	B2/1000		
BM (30°-60°)	721.2	3.9	B1/1000		
BH (60°-80°)	279.3	1.5	B1/500		G1/500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2
2.5°	3129.0	3123.9	3127.3	3152.9	3200.7	3222.9	3260.4	3267.3	3298.0	3337.3	3352.6
5°	2925.9	2908.8	2917.3	2953.2	3007.8	3069.3	3139.2	3158.0	3234.8	3321.9	3386.8
7.5°	2739.8	2721.0	2741.5	2797.8	2874.7	2941.2	3045.4	3057.3	3180.2	3333.8	3451.6
10°	2447.9	2453.0	2494.0	2593.0	2710.8	2849.0	2989.0	3006.1	3158.0	3373.1	3555.8
12.5°	2224.3	2212.3	2256.7	2369.4	2535.0	2736.4	2946.3	2968.5	3159.7	3432.9	3688.9
15°	2120.1	2116.7	2135.5	2217.4	2377.9	2615.2	2907.1	2936.1	3181.9	3487.5	3815.2
17.5°	2123.6	2118.4	2116.7	2164.5	2284.0	2524.7	2864.4	2902.0	3200.7	3547.2	3948.4
20°	2272.1	2248.2	2205.5	2183.3	2255.0	2466.7	2835.4	2878.1	3228.0	3610.4	4090.1
22.5°	2582.8	2591.3	2476.9	2357.4	2323.3	2473.5	2832.0	2881.5	3287.8	3709.4	4264.2
25°	3204.1	3190.5	2978.8	2710.8	2524.7	2552.0	2891.7	2951.5	3405.5	3851.1	4428.1
27.5°	3982.5	3994.5	3704.3	3277.5	2888.3	2714.2	3001.0	3060.7	3542.1	3939.8	4537.3
30°	4830.9	4819.0	4508.3	4035.4	3403.8	2983.9	3110.2	3163.1	3610.4	3987.6	4650.0
32.5°	5633.2	5605.9	5298.6	4803.6	4061.0	3409.0	3260.4	3291.2	3700.9	4091.8	4801.9
35°	6317.8	6316.0	6048.0	5520.6	4737.0	3941.6	3518.2	3543.8	3869.9	4257.4	5025.5
37.5°	7024.5	7000.6	6700.1	6218.7	5431.8	4525.4	3912.5	3902.3	4136.2	4501.5	5300.4
40°	7604.9	7589.5	7359.0	6896.4	6153.9	5170.6	4390.5	4359.8	4452.0	4839.5	5682.7
42.5°	8035.0	8036.7	7965.0	7683.4	6918.6	5916.6	4991.4	4943.6	4941.9	5349.9	6188.0
45°	8361.1	8383.3	8490.8	8448.1	7821.7	6785.5	5761.3	5711.8	5628.1	6012.2	6766.7
47.5°	8513.0	8542.0	8866.4	9037.1	8612.0	7647.5	6677.9	6573.8	6409.9	6893.0	7413.7
50°	8497.6	8548.9	9001.2	9520.2	9329.0	8521.5	7676.6	7627.1	7359.0	7825.1	8053.8
52.5°	8149.4	8258.7	9009.8	9813.8	9880.3	9327.3	8709.3	8617.1	8487.4	8798.1	8654.7
55°	7203.7	7336.9	8649.6	9907.7	10310.5	10030.6	9719.9	9644.8	9429.7	9716.5	9178.7
57.5°	6689.9	6804.3	7891.6	9861.6	10675.8	10680.9	10619.5	10558.0	10380.5	10624.6	9793.3
60°	6380.9	6495.3	7487.1	9692.6	11007.0	11367.2	11464.5	11457.6	11201.6	11657.4	10513.7
62.5°	5928.5	6085.6	7065.4	9253.9	11242.6	12043.2	12336.8	12290.7	12005.6	12732.8	11227.2
65°	5015.3	5151.8	6201.7	8530.1	11104.3	12603.1	13282.5	13306.4	12976.9	13745.1	11790.5
67.5°	3516.5	3617.2	4660.2	7010.8	10165.4	12787.4	14250.4	14248.7	13687.0	14264.0	11541.3
70°	2038.2	2176.5	2753.5	4334.2	7908.7	11949.3	14395.5	14445.0	13398.5	13180.0	9550.9
72.5°	788.7	903.0	1560.2	2302.8	4124.2	9153.1	12382.9	12528.0	11213.5	10167.1	6647.2
75°	235.6	262.9	734.0	1225.7	1655.8	4421.2	8383.3	8424.2	7691.9	6341.7	3407.2
77.5°	175.8	194.6	320.9	619.7	580.4	1340.0	4337.6	4737.0	4083.2	2265.2	938.9
80°	119.5	141.7	228.7	302.1	215.1	356.8	1218.8	1338.3	1246.1	508.7	235.6
82.5°	52.9	68.3	162.2	151.9	78.5	102.4	375.5	399.4	257.8	153.6	81.9
85°	5.1	6.8	61.5	66.6	29.0	23.9	78.5	78.5	56.3	52.9	34.1
87.5°	0.0	0.0	1.7	3.4	3.4	5.1	6.8	8.5	10.2	13.7	17.1
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°	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2	3361.2
2.5°	3391.9	3371.4	3397.0	3417.5	3422.6	3385.1	3362.9	3330.4	3323.6	3325.3	3316.8
5°	3438.0	3427.7	3446.5	3424.3	3366.3	3257.0	3163.1	3059.0	3002.7	2970.2	2966.8
7.5°	3523.3	3518.2	3497.7	3397.0	3216.1	2973.7	2739.8	2511.1	2369.4	2318.2	2309.6
10°	3649.6	3639.4	3555.8	3316.8	2931.0	2465.0	2072.3	1744.6	1544.9	1486.8	1415.1
12.5°	3794.7	3774.3	3591.6	3144.4	2500.8	1855.6	1365.6	998.6	826.2	775.0	775.0
15°	3934.7	3890.3	3571.1	2859.3	1971.6	1206.9	763.0	577.0	524.1	510.4	510.4
17.5°	4078.1	3992.8	3490.9	2470.1	1362.2	713.5	508.7	472.8	466.0	467.7	469.4
20°	4213.0	4079.8	3349.2	2002.4	868.9	498.5	455.8	447.2	443.8	447.2	445.5
22.5°	4359.8	4160.1	3134.1	1492.0	565.0	449.0	433.6	426.8	423.3	428.5	428.5
25°	4504.9	4218.1	2849.0	1003.7	449.0	418.2	409.7	402.9	399.4	401.2	401.2
27.5°	4580.0	4195.9	2475.2	640.1	402.9	387.5	379.0	370.4	365.3	363.6	365.3
30°	4631.2	4127.6	2017.7	455.8	365.3	346.5	338.0	331.2	317.5	309.0	312.4
32.5°	4711.4	4059.3	1521.0	382.4	334.6	305.6	291.9	274.8	256.1	247.5	247.5
35°	4807.0	3965.5	1066.9	344.8	302.1	271.4	245.8	216.8	194.6	187.8	187.8
37.5°	4933.3	3876.7	710.1	319.2	274.8	242.4	206.6	172.4	148.5	145.1	143.4
40°	5122.8	3801.6	500.2	300.4	250.9	211.7	169.0	133.1	116.1	111.0	111.0
42.5°	5368.6	3724.8	396.0	281.7	230.5	182.7	134.9	105.8	92.2	88.8	87.1
45°	5672.5	3634.3	344.8	264.6	210.0	151.9	107.5	88.8	78.5	75.1	75.1
47.5°	6001.9	3511.4	320.9	242.4	186.1	122.9	90.5	76.8	71.7	70.0	68.3
50°	6326.3	3345.8	300.4	221.9	158.8	100.7	78.5	70.0	66.6	64.9	64.9
52.5°	6609.7	3152.9	274.8	198.0	129.7	87.1	70.0	64.9	61.5	58.0	56.3
55°	6852.1	2942.9	242.4	170.7	105.8	76.8	64.9	59.7	56.3	52.9	51.2
57.5°	7164.4	2823.4	194.6	138.3	87.1	68.3	59.7	54.6	51.2	46.1	46.1
60°	7511.0	2736.4	145.1	109.3	75.1	63.2	54.6	49.5	46.1	41.0	41.0
62.5°	7789.2	2606.6	114.4	88.8	64.9	56.3	49.5	44.4	41.0	35.8	35.8
65°	7895.1	2338.6	93.9	70.0	52.9	49.5	44.4	41.0	35.8	30.7	30.7
67.5°	7417.1	1802.6	78.5	56.3	44.4	42.7	39.3	37.6	30.7	27.3	25.6
70°	5873.9	1099.3	64.9	46.1	37.6	35.8	35.8	32.4	27.3	25.6	23.9
72.5°	4025.2	566.7	52.9	37.6	32.4	32.4	30.7	29.0	25.6	23.9	23.9
75°	2091.1	189.5	41.0	29.0	25.6	27.3	27.3	25.6	23.9	23.9	22.2
77.5°	599.2	85.4	30.7	22.2	20.5	20.5	22.2	22.2	22.2	20.5	20.5
80°	155.3	49.5	22.2	17.1	17.1	17.1	17.1	18.8	20.5	18.8	18.8
82.5°	63.2	27.3	15.4	13.7	13.7	13.7	13.7	15.4	17.1	17.1	17.1
85°	39.3	13.7	11.9	11.9	11.9	10.2	10.2	11.9	11.9	13.7	13.7
87.5°	23.9	10.2	10.2	10.2	10.2	8.5	8.5	8.5	8.5	8.5	8.5
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)