

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: P640377

Luminaire Tested: GWS-SA5D-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

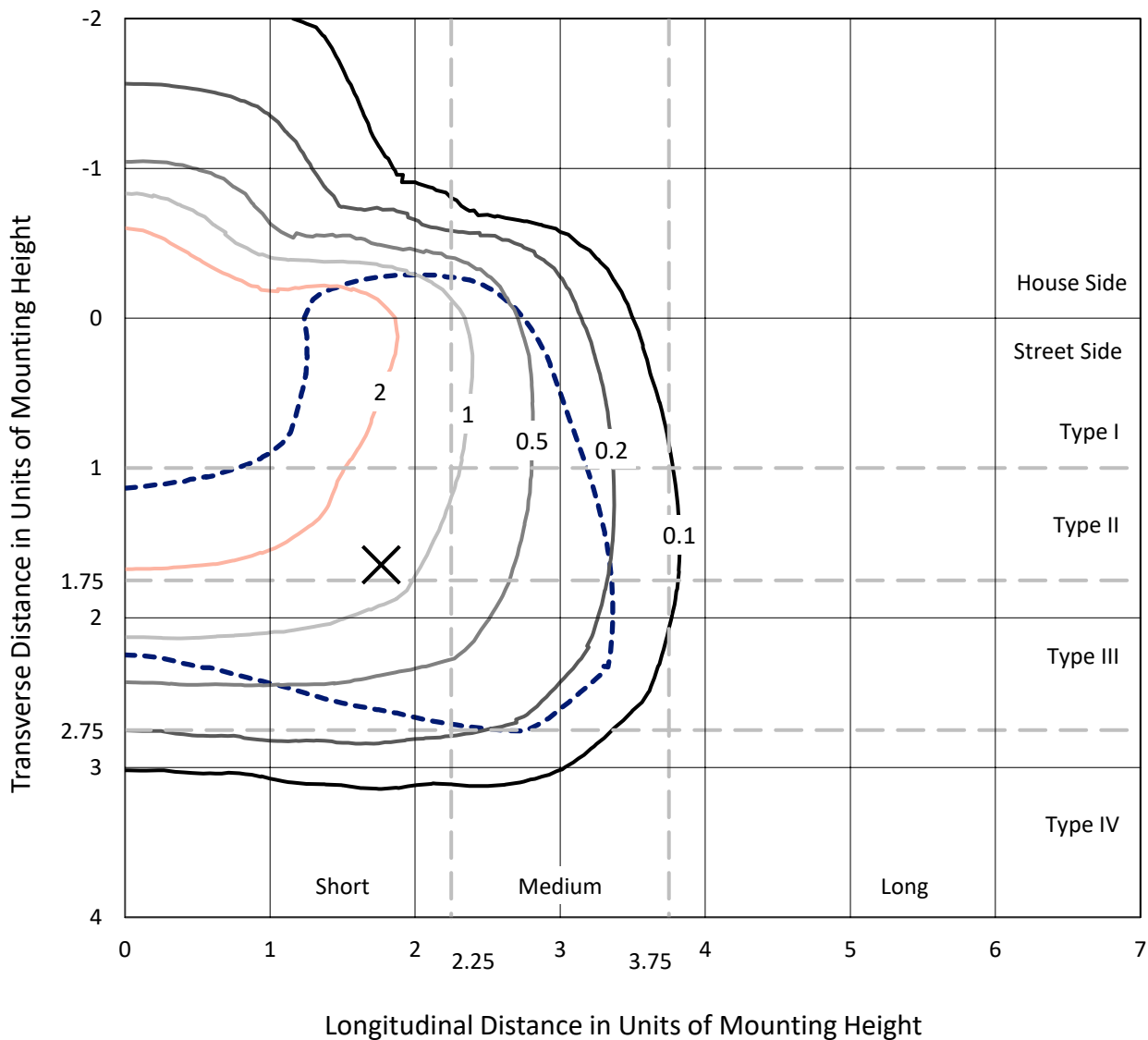
Lumens per Lamp: N/A  
Luminaire Lumens: 30048.5 lumens  
Efficiency: N/A  
Efficacy: 146.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

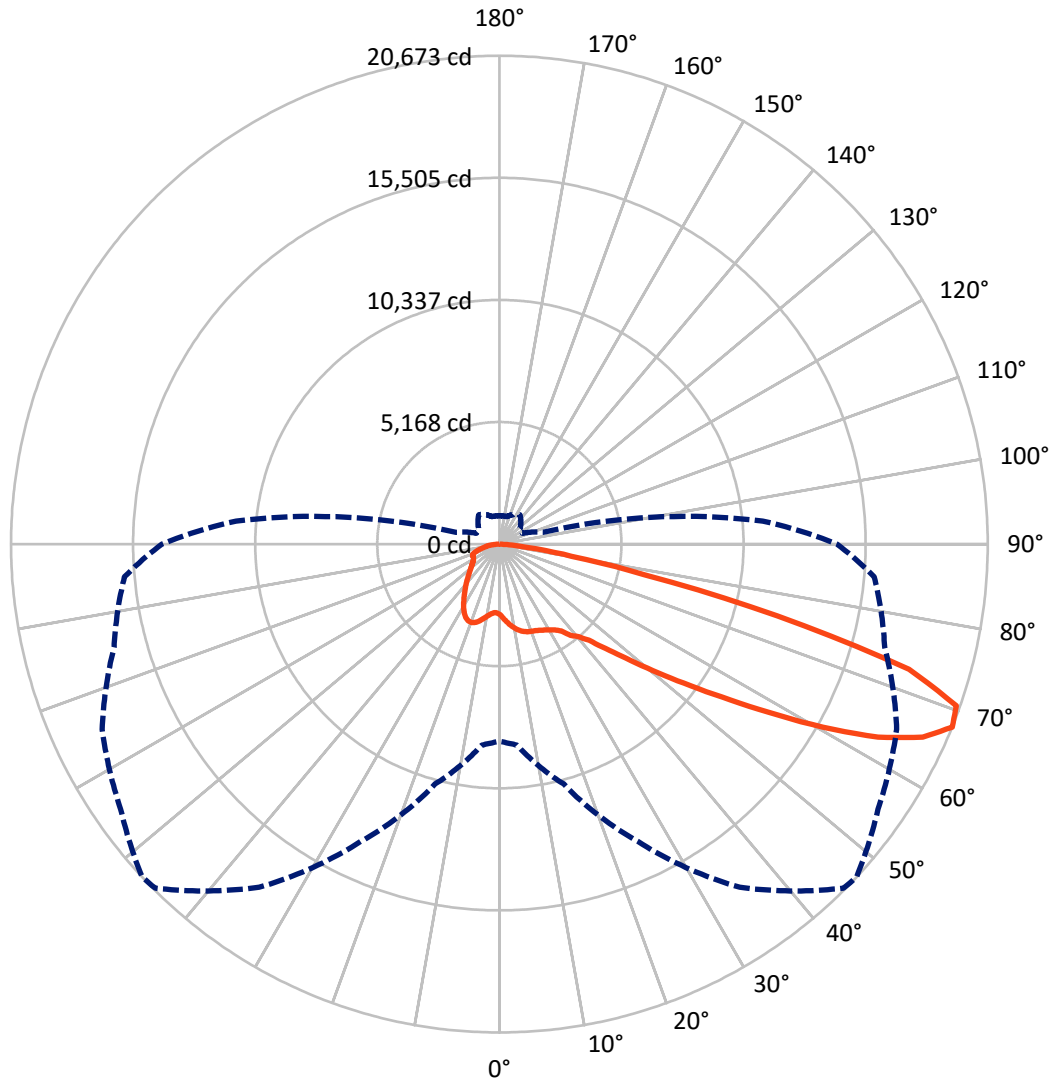
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6848.3	0.0	6848.3
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	23200.2	0.0	23200.2
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	30048.5	0.0	30048.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.4	1.0
10°-20°	1014.3	3.4
20°-30°	1724.0	5.7
30°-40°	2525.4	8.4
40°-50°	3847.8	12.8
50°-60°	6884.5	22.9
60°-70°	9186.7	30.6
70°-80°	4154.4	13.8
80°-90°	407.0	1.4
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°	30048.5	100.0
0°-180°	30048.5	100.0

**Coefficient of Utilization**



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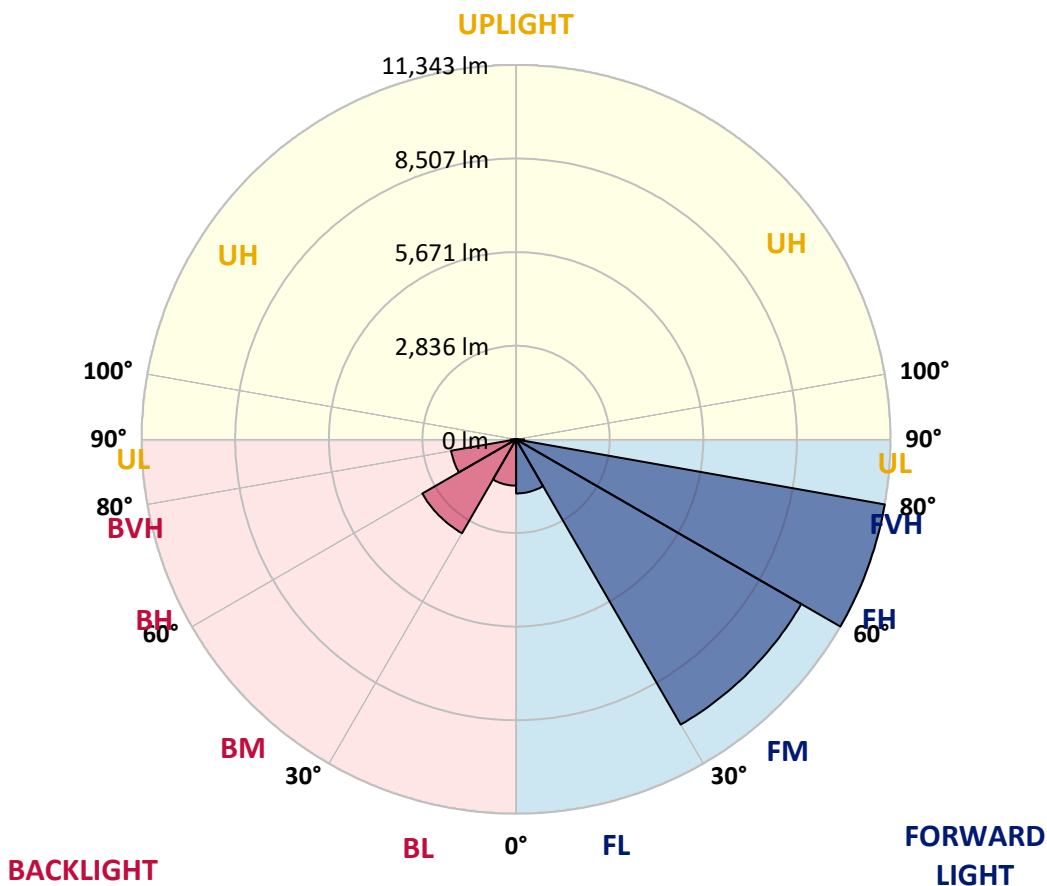
CATALOG NUMBER: GWS-SA5D-760-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.7	5.5			
FM (30°-60°)	9976.4	33.2			
FH (60°-80°)	11343.0	37.7			G4/12000
FVH (80°-90°)	242.1	0.8			G3/500
BL (0°-30°)	1403.9	4.7	B3/2500		
BM (30°-60°)	3281.3	10.9	B3/5000		
BH (60°-80°)	1998.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	164.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8
2.5°	3176.5	3187.3	3185.2	3167.8	3156.9	3137.4	3139.5	3109.1	3063.5	3033.1	2998.3
5°	3456.7	3474.1	3452.4	3424.2	3380.7	3317.7	3311.2	3241.7	3154.7	3093.9	3030.9
7.5°	3700.1	3711.0	3684.9	3637.1	3574.1	3489.3	3474.1	3391.6	3282.9	3187.3	3096.1
10°	3889.1	3902.2	3867.4	3804.4	3721.8	3637.1	3626.2	3541.5	3426.3	3313.4	3198.2
12.5°	4049.9	4054.2	4017.3	3932.6	3843.5	3756.6	3745.7	3667.5	3561.0	3445.9	3319.9
15°	4143.3	4145.5	4099.9	4006.4	3921.7	3845.7	3839.1	3771.8	3674.0	3565.4	3430.7
17.5°	4136.8	4141.1	4108.6	4026.0	3952.1	3906.5	3900.0	3856.5	3780.5	3682.7	3548.0
20°	4056.4	4060.8	4039.0	3984.7	3945.6	3932.6	3934.7	3921.7	3876.1	3795.7	3658.8
22.5°	3993.4	3999.9	3980.4	3941.3	3936.9	3967.3	3973.8	3980.4	3958.6	3886.9	3754.4
25°	4023.8	4034.7	4004.3	3949.9	3958.6	4026.0	4039.0	4060.8	4043.4	3982.5	3867.4
27.5°	4234.6	4241.1	4162.9	4052.1	4026.0	4097.7	4117.2	4152.0	4139.0	4082.5	3993.4
30°	4723.4	4719.1	4551.8	4280.2	4171.6	4199.8	4215.0	4265.0	4269.3	4232.4	4147.7
32.5°	5412.2	5390.4	5131.9	4699.5	4384.5	4315.0	4332.3	4399.7	4449.7	4410.6	4295.4
35°	6140.0	6120.5	5835.8	5329.6	4777.7	4536.6	4517.0	4569.2	4645.2	4536.6	4371.5
37.5°	6833.1	6802.7	6511.6	5885.8	5262.3	4925.5	4897.2	4845.1	4799.5	4590.9	4464.9
40°	7602.2	7567.5	7313.3	6605.0	5796.7	5223.1	5151.4	4945.0	4903.8	4771.2	4708.2
42.5°	8423.5	8423.5	8212.8	7515.3	6442.0	5649.0	5555.6	5244.9	5288.3	5201.4	5127.5
45°	9244.8	9268.7	9101.4	8432.2	7304.6	6452.9	6303.0	5861.9	5966.2	5927.1	5890.2
47.5°	9944.4	9990.0	9957.4	9368.6	8360.5	7430.6	7202.5	6744.0	6967.8	7061.2	7165.5
50°	10698.3	10748.3	10715.7	10483.2	9596.8	8614.7	8410.5	7936.8	8321.4	8601.7	8942.8
52.5°	11817.3	11889.0	11617.4	11528.3	11098.1	9959.6	9777.1	9238.3	9935.7	10400.7	11161.1
55°	12762.4	12760.2	12664.6	12868.8	12710.2	11604.3	11402.3	10913.4	11804.2	12297.4	13409.8
57.5°	13201.3	13253.4	13581.5	14159.4	14476.6	13614.1	13420.7	12921.0	13809.6	14066.0	15267.5
60°	13427.2	13492.4	14126.8	15269.7	16123.5	15808.5	15732.4	15095.8	15595.6	15565.1	16834.0
62.5°	13110.0	13240.4	14259.4	15778.1	17299.0	18013.8	17989.9	17027.4	17114.3	16816.6	17805.2
65°	11654.3	11795.5	13394.6	15523.9	17970.3	19691.1	19697.6	18776.4	18281.0	17425.0	17642.2
67.5°	8334.4	8536.5	10513.6	13890.0	17733.5	20597.1	20673.1	19569.4	18554.8	16886.1	15930.2
70°	4543.1	4690.8	6240.0	10096.5	15599.9	20379.8	20521.1	19187.0	17346.8	14607.0	12262.7
72.5°	2064.1	2111.9	2902.7	5540.4	10657.0	17542.3	18133.3	17123.0	14246.3	10789.6	7797.8
75°	945.1	966.8	1264.5	2650.7	5568.6	11739.0	12154.0	12753.7	9914.0	6813.6	4065.1
77.5°	593.1	599.7	719.2	1212.4	2776.7	5859.7	6296.5	7593.5	5805.4	3372.0	1699.0
80°	349.8	356.3	447.6	656.2	1303.6	2681.1	3096.1	3002.7	2728.9	1455.7	773.5
82.5°	176.0	182.5	258.6	373.7	710.5	1066.8	1255.8	1262.3	1016.8	788.7	436.7
85°	63.0	65.2	84.7	147.7	302.0	352.0	393.3	480.2	497.5	458.4	210.8
87.5°	0.0	0.0	2.2	4.3	8.7	34.8	36.9	69.5	145.6	163.0	84.7
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°	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8
2.5°	2987.4	2954.9	2944.0	2933.1	2915.7	2909.2	2896.2	2883.2	2883.2	2870.1	2863.6
5°	3002.7	2959.2	2931.0	2917.9	2907.1	2913.6	2913.6	2917.9	2933.1	2924.4	2928.8
7.5°	3057.0	3007.0	2967.9	2957.0	2957.0	2983.1	3000.5	3022.2	3050.5	3054.8	3054.8
10°	3152.6	3093.9	3052.6	3046.1	3057.0	3093.9	3120.0	3146.1	3180.8	3183.0	3187.3
12.5°	3256.9	3198.2	3156.9	3165.6	3176.5	3224.3	3252.5	3274.2	3309.0	3309.0	3306.8
15°	3365.5	3300.3	3265.6	3282.9	3315.5	3369.8	3374.2	3376.4	3393.7	3389.4	3387.2
17.5°	3478.5	3408.9	3382.9	3408.9	3443.7	3469.8	3448.1	3417.6	3411.1	3402.4	3398.1
20°	3589.3	3517.6	3506.7	3526.3	3537.1	3515.4	3448.1	3391.6	3365.5	3352.5	3348.1
22.5°	3684.9	3624.0	3617.5	3617.5	3563.2	3487.2	3387.2	3311.2	3276.4	3259.0	3254.7
25°	3797.9	3741.4	3730.5	3671.8	3532.8	3393.7	3259.0	3189.5	3161.3	3152.6	3154.7
27.5°	3930.4	3891.3	3856.5	3689.2	3445.9	3228.6	3076.5	3046.1	3035.2	3046.1	3052.6
30°	4093.3	4054.2	3976.0	3667.5	3306.8	3013.5	2868.0	2865.8	2898.4	2926.6	2931.0
32.5°	4225.9	4208.5	4080.3	3598.0	3111.3	2776.7	2652.9	2661.5	2720.2	2759.3	2765.8
35°	4330.2	4358.4	4167.2	3482.8	2878.8	2552.9	2455.1	2459.5	2492.1	2546.4	2548.6
37.5°	4477.9	4573.5	4245.4	3306.8	2611.6	2359.5	2270.5	2237.9	2233.5	2248.7	2253.1
40°	4775.6	4919.0	4301.9	3050.5	2353.0	2185.7	2085.8	2022.8	1968.5	1927.2	1914.1
42.5°	5225.3	5390.4	4334.5	2739.8	2122.7	2014.1	1901.1	1820.7	1725.1	1638.2	1607.8
45°	6050.9	6105.3	4334.5	2409.5	1918.5	1853.3	1740.3	1644.7	1523.1	1420.9	1399.2
47.5°	7371.9	7198.1	4338.9	2090.1	1738.2	1712.1	1614.3	1505.7	1371.0	1286.2	1273.2
50°	9362.1	8751.6	4427.9	1825.1	1588.2	1592.6	1520.9	1401.4	1279.7	1216.7	1205.8
52.5°	11617.4	10665.7	4666.9	1629.5	1462.2	1494.8	1455.7	1340.5	1231.9	1177.6	1166.7
55°	13737.9	12425.6	4871.2	1490.5	1355.8	1412.2	1410.1	1303.6	1205.8	1151.5	1145.0
57.5°	15541.2	13631.5	4840.8	1377.5	1264.5	1336.2	1368.8	1279.7	1188.5	1142.8	1136.3
60°	16662.4	14270.2	4408.4	1273.2	1195.0	1281.9	1344.9	1273.2	1197.2	1186.3	1188.5
62.5°	17149.0	14152.9	3578.4	1195.0	1149.4	1255.8	1371.0	1318.8	1277.5	1303.6	1318.8
65°	16392.9	13144.8	2633.3	1136.3	1105.9	1262.3	1431.8	1390.5	1277.5	1294.9	1301.4
67.5°	14294.1	11189.4	1903.3	1077.7	1051.6	1281.9	1518.7	1379.7	1203.7	1203.7	1190.6
70°	10300.7	8047.6	1381.8	1019.0	997.3	1253.6	1523.1	1305.8	1118.9	1112.4	1079.8
72.5°	6198.7	4747.3	1077.7	953.8	914.7	1112.4	1427.5	1218.9	1036.4	982.1	942.9
75°	3219.9	2379.1	903.8	882.1	784.3	942.9	1305.8	1084.2	886.5	838.7	816.9
77.5°	1379.7	1112.4	775.7	786.5	651.8	793.0	1053.8	938.6	786.5	725.7	706.1
80°	680.1	632.3	612.7	630.1	521.4	612.7	908.2	821.3	667.0	597.5	569.2
82.5°	388.9	369.4	441.1	447.6	371.5	512.8	767.0	695.3	551.9	475.8	430.2
85°	180.3	193.4	267.2	269.4	230.3	352.0	501.9	391.1	293.3	243.3	232.5
87.5°	71.7	84.7	117.3	115.2	67.4	65.2	43.5	23.9	19.6	17.4	15.2
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)