

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: P640322

Luminaire Tested: GWS-SA5D-750-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640322  
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-750-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

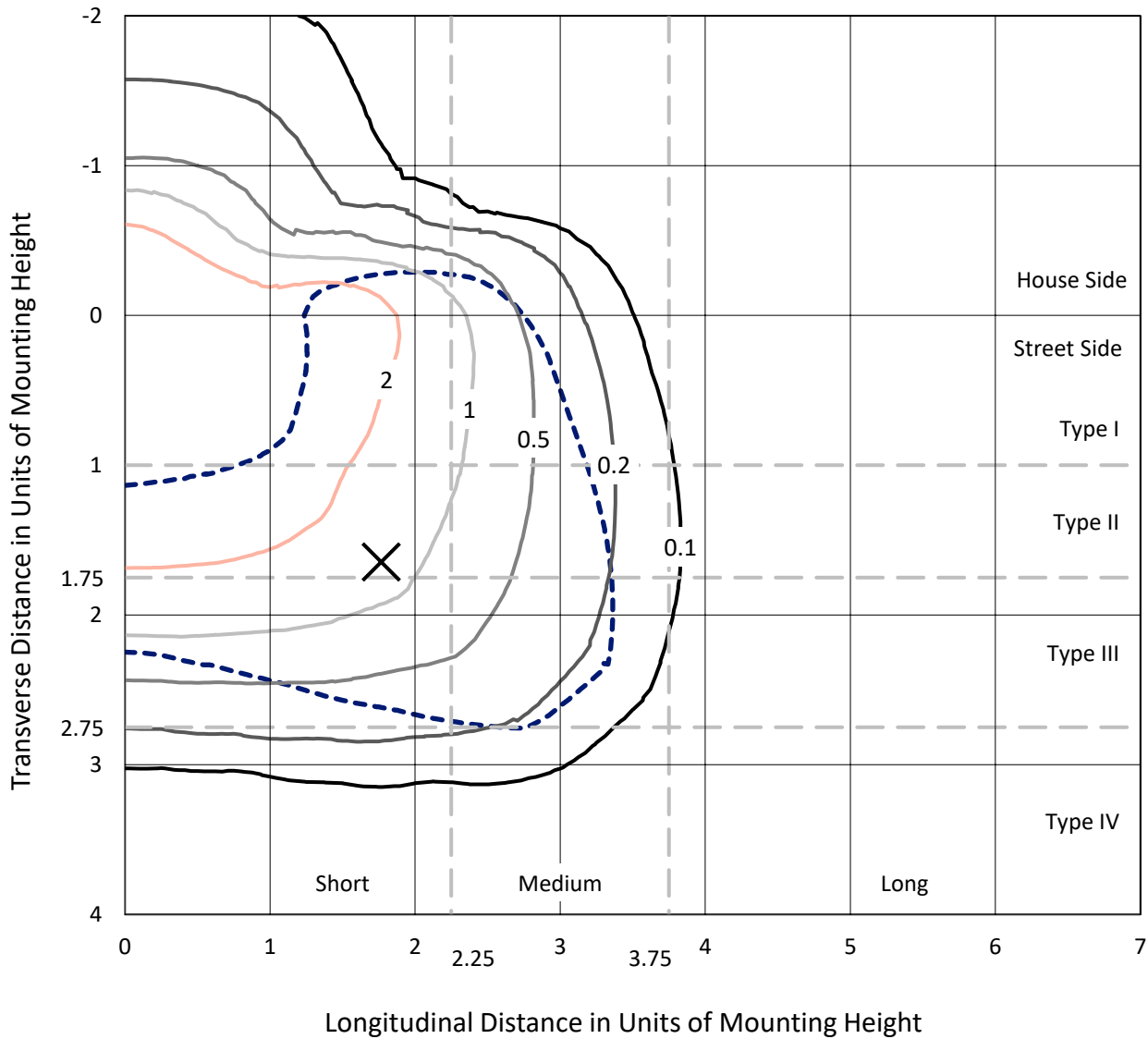
Lumens per Lamp: N/A  
Luminaire Lumens: 30466.1 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

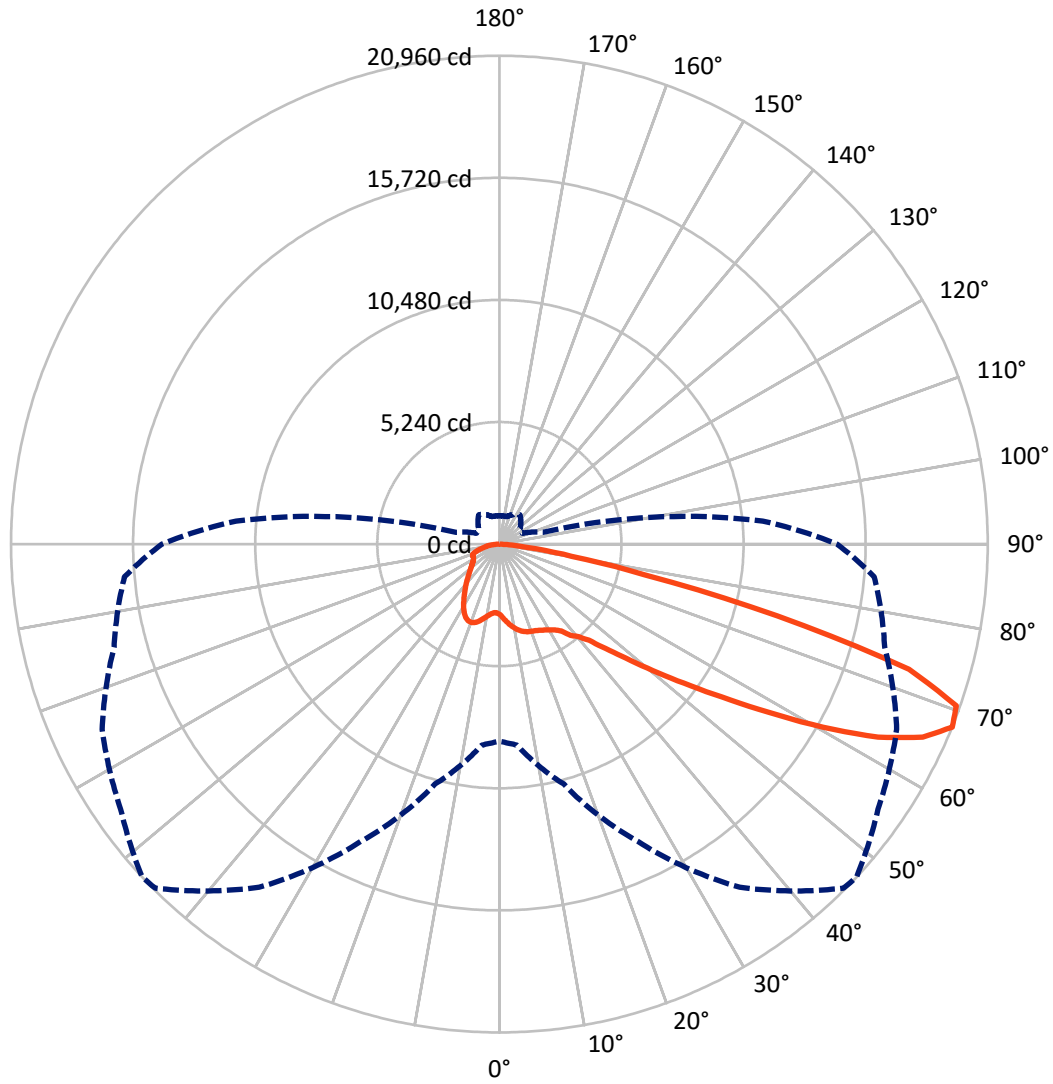
✕ Max cd  
 - - - 1/2 Max cd



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	6943.5	0.0	6943.5
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	23522.6	0.0	23522.6
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	30466.1	0.0	30466.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.7	1.0
10°-20°	1028.3	3.4
20°-30°	1747.9	5.7
30°-40°	2560.5	8.4
40°-50°	3901.3	12.8
50°-60°	6980.2	22.9
60°-70°	9314.3	30.6
70°-80°	4212.1	13.8
80°-90°	412.7	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°	30466.1	100.0
0°-180°	30466.1	100.0

**Coefficient of Utilization**



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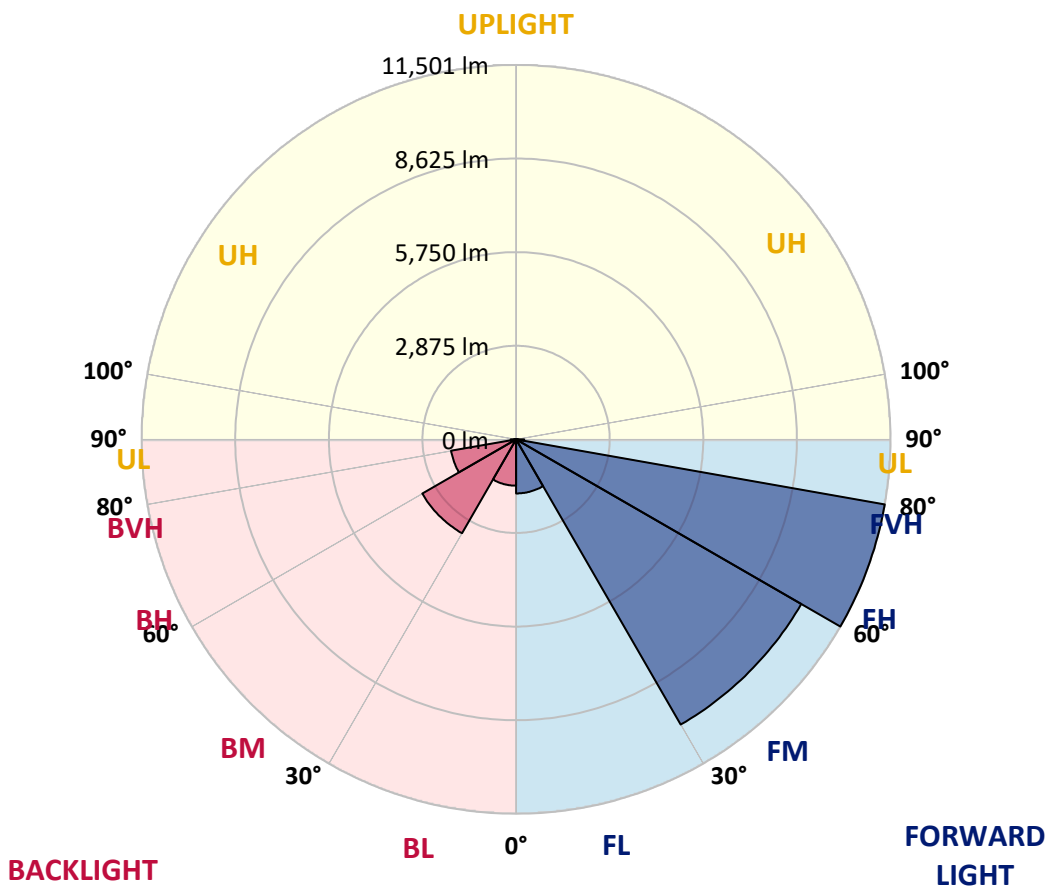
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.5	5.5			
FM (30°-60°)	10115.1	33.2			
FH (60°-80°)	11500.6	37.7			G4/12000
FVH (80°-90°)	245.5	0.8			G3/500
BL (0°-30°)	1423.4	4.7	B3/2500		
BM (30°-60°)	3326.9	10.9	B3/5000		
BH (60°-80°)	2025.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	167.2	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°	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2
2.5°	3220.6	3231.6	3229.4	3211.8	3200.8	3181.0	3183.2	3152.3	3106.1	3075.2	3040.0
5°	3504.8	3522.4	3500.4	3471.7	3427.7	3363.8	3357.2	3286.7	3198.6	3136.9	3073.0
7.5°	3751.5	3762.5	3736.1	3687.6	3623.7	3537.8	3522.4	3438.7	3328.6	3231.6	3139.1
10°	3943.2	3956.4	3921.1	3857.3	3773.5	3687.6	3676.6	3590.7	3473.9	3359.4	3242.6
12.5°	4106.2	4110.6	4073.1	3987.2	3896.9	3808.8	3797.8	3718.5	3610.5	3493.8	3366.0
15°	4200.9	4203.1	4156.8	4062.1	3976.2	3899.1	3892.5	3824.2	3725.1	3614.9	3478.4
17.5°	4194.3	4198.7	4165.7	4081.9	4007.0	3960.8	3954.2	3910.1	3833.0	3733.9	3597.3
20°	4112.8	4117.2	4095.2	4040.1	4000.4	3987.2	3989.4	3976.2	3929.9	3848.4	3709.7
22.5°	4048.9	4055.5	4035.7	3996.0	3991.6	4022.5	4029.1	4035.7	4013.7	3941.0	3806.6
25°	4079.7	4090.8	4059.9	4004.8	4013.7	4081.9	4095.2	4117.2	4099.6	4037.9	3921.1
27.5°	4293.4	4300.0	4220.7	4108.4	4081.9	4154.6	4174.5	4209.7	4196.5	4139.2	4048.9
30°	4789.1	4784.7	4615.0	4339.7	4229.5	4258.2	4273.6	4324.3	4328.7	4291.2	4205.3
32.5°	5487.4	5465.4	5203.2	4764.8	4445.4	4374.9	4392.6	4460.8	4511.5	4471.9	4355.1
35°	6225.4	6205.5	5916.9	5403.7	4844.1	4599.6	4579.8	4632.7	4709.8	4599.6	4432.2
37.5°	6928.1	6897.2	6602.0	5967.6	5335.4	4993.9	4965.3	4912.4	4866.2	4654.7	4526.9
40°	7707.9	7672.6	7414.9	6696.8	5877.3	5295.7	5223.0	5013.8	4971.9	4837.5	4773.7
42.5°	8540.6	8540.6	8326.9	7619.8	6531.6	5727.5	5632.8	5317.8	5361.8	5273.7	5198.8
45°	9373.3	9397.5	9227.9	8549.4	7406.1	6542.6	6390.6	5943.4	6049.1	6009.5	5972.0
47.5°	10082.6	10128.9	10095.8	9498.8	8476.7	7533.9	7302.6	6837.8	7064.7	7159.4	7265.1
50°	10847.0	10897.7	10864.6	10628.9	9730.1	8734.4	8527.4	8047.1	8437.0	8721.2	9067.1
52.5°	11981.5	12054.2	11778.8	11688.5	11252.3	10098.0	9913.0	9366.7	10073.8	10545.2	11316.2
55°	12939.7	12937.5	12840.6	13047.7	12886.9	11765.6	11560.7	11065.1	11968.3	12468.3	13596.2
57.5°	13384.7	13437.6	13770.2	14356.2	14677.8	13803.3	13607.2	13100.6	14001.5	14261.5	15479.7
60°	13613.8	13679.9	14323.2	15481.9	16347.6	16028.2	15951.1	15305.6	15812.3	15781.5	17067.9
62.5°	13292.2	13424.4	14457.5	15997.3	17539.4	18264.1	18239.9	17264.0	17352.1	17050.3	18052.6
65°	11816.3	11959.5	13580.8	15739.6	18220.1	19964.7	19971.4	19037.3	18535.1	17667.1	17887.4
67.5°	8450.3	8655.1	10659.8	14083.0	17979.9	20883.3	20960.4	19841.4	18812.6	17120.8	16151.5
70°	4606.2	4756.0	6326.7	10236.8	15816.7	20663.1	20806.2	19453.7	17587.8	14810.0	12433.1
72.5°	2092.7	2141.2	2943.1	5617.4	10805.1	17786.1	18385.3	17360.9	14444.3	10939.5	7906.2
75°	958.3	980.3	1282.1	2687.5	5646.0	11902.2	12322.9	12930.9	10051.8	6908.2	4121.6
77.5°	601.4	608.0	729.2	1229.2	2815.3	5941.2	6384.0	7699.1	5886.1	3418.9	1722.7
80°	354.7	361.3	453.8	665.3	1321.7	2718.4	3139.1	3044.4	2766.8	1475.9	784.2
82.5°	178.4	185.0	262.1	378.9	720.3	1081.6	1273.3	1279.9	1030.9	799.6	442.8
85°	63.9	66.1	85.9	149.8	306.2	356.9	398.7	486.8	504.5	464.8	213.7
87.5°	0.0	0.0	2.2	4.4	8.8	35.2	37.4	70.5	147.6	165.2	85.9
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°	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2
2.5°	3029.0	2995.9	2984.9	2973.9	2956.3	2949.7	2936.4	2923.2	2923.2	2910.0	2903.4
5°	3044.4	3000.3	2971.7	2958.5	2947.5	2954.1	2954.1	2958.5	2973.9	2965.1	2969.5
7.5°	3099.5	3048.8	3009.1	2998.1	2998.1	3024.6	3042.2	3064.2	3092.8	3097.3	3097.3
10°	3196.4	3136.9	3095.1	3088.4	3099.5	3136.9	3163.3	3189.8	3225.0	3227.2	3231.6
12.5°	3302.1	3242.6	3200.8	3209.6	3220.6	3269.1	3297.7	3319.7	3355.0	3355.0	3352.8
15°	3412.3	3346.2	3310.9	3328.6	3361.6	3416.7	3421.1	3423.3	3440.9	3436.5	3434.3
17.5°	3526.8	3456.3	3429.9	3456.3	3491.6	3518.0	3496.0	3465.1	3458.5	3449.7	3445.3
20°	3639.2	3566.5	3555.5	3575.3	3586.3	3564.3	3496.0	3438.7	3412.3	3399.1	3394.6
22.5°	3736.1	3674.4	3667.8	3667.8	3612.7	3535.6	3434.3	3357.2	3321.9	3304.3	3299.9
25°	3850.6	3793.4	3782.4	3722.9	3581.9	3440.9	3304.3	3233.8	3205.2	3196.4	3198.6
27.5°	3985.0	3945.4	3910.1	3740.5	3493.8	3273.5	3119.3	3088.4	3077.4	3088.4	3095.1
30°	4150.2	4110.6	4031.3	3718.5	3352.8	3055.4	2907.8	2905.6	2938.6	2967.3	2971.7
32.5°	4284.6	4267.0	4137.0	3648.0	3154.5	2815.3	2689.7	2698.5	2758.0	2797.7	2804.3
35°	4390.3	4419.0	4225.1	3531.2	2918.8	2588.4	2489.3	2493.7	2526.7	2581.8	2584.0
37.5°	4540.1	4637.1	4304.4	3352.8	2647.9	2392.3	2302.0	2269.0	2264.6	2280.0	2284.4
40°	4841.9	4987.3	4361.7	3092.8	2385.7	2216.1	2114.8	2050.9	1995.8	1954.0	1940.7
42.5°	5297.9	5465.4	4394.8	2777.8	2152.2	2042.1	1927.5	1846.0	1749.1	1661.0	1630.1
45°	6135.0	6190.1	4394.8	2443.0	1945.1	1879.1	1764.5	1667.6	1544.2	1440.7	1418.7
47.5°	7474.4	7298.2	4399.2	2119.2	1762.3	1735.9	1636.7	1526.6	1390.0	1304.1	1290.9
50°	9492.2	8873.2	4489.5	1850.4	1610.3	1614.7	1542.0	1420.9	1297.5	1233.6	1222.6
52.5°	11778.8	10814.0	4731.8	1652.2	1482.5	1515.6	1475.9	1359.2	1249.0	1194.0	1182.9
55°	13928.8	12598.3	4938.9	1511.2	1374.6	1431.9	1429.7	1321.7	1222.6	1167.5	1160.9
57.5°	15757.2	13820.9	4908.0	1396.6	1282.1	1354.8	1387.8	1297.5	1205.0	1158.7	1152.1
60°	16893.9	14468.5	4469.7	1290.9	1211.6	1299.7	1363.6	1290.9	1213.8	1202.8	1205.0
62.5°	17387.4	14349.6	3628.2	1211.6	1165.3	1273.3	1390.0	1337.2	1295.3	1321.7	1337.2
65°	16620.8	13327.5	2669.9	1152.1	1121.3	1279.9	1451.7	1409.8	1295.3	1312.9	1319.5
67.5°	14492.8	11344.9	1929.7	1092.6	1066.2	1299.7	1539.8	1398.8	1220.4	1220.4	1207.2
70°	10443.9	8159.5	1401.0	1033.2	1011.1	1271.1	1544.2	1323.9	1134.5	1127.9	1094.8
72.5°	6284.8	4813.3	1092.6	967.1	927.4	1127.9	1447.3	1235.8	1050.8	995.7	956.1
75°	3264.7	2412.2	916.4	894.4	795.2	956.1	1323.9	1099.2	898.8	850.3	828.3
77.5°	1398.8	1127.9	786.4	797.4	660.9	804.1	1068.4	951.6	797.4	735.8	715.9
80°	689.5	641.0	621.2	638.8	528.7	621.2	920.8	832.7	676.3	605.8	577.2
82.5°	394.3	374.5	447.2	453.8	376.7	519.9	777.6	704.9	559.5	482.4	436.2
85°	182.8	196.1	271.0	273.2	233.5	356.9	508.9	396.5	297.4	246.7	235.7
87.5°	72.7	85.9	119.0	116.8	68.3	66.1	44.1	24.2	19.8	17.6	15.4
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)