

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: P637662

Luminaire Tested: GWS-SA4D-730-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

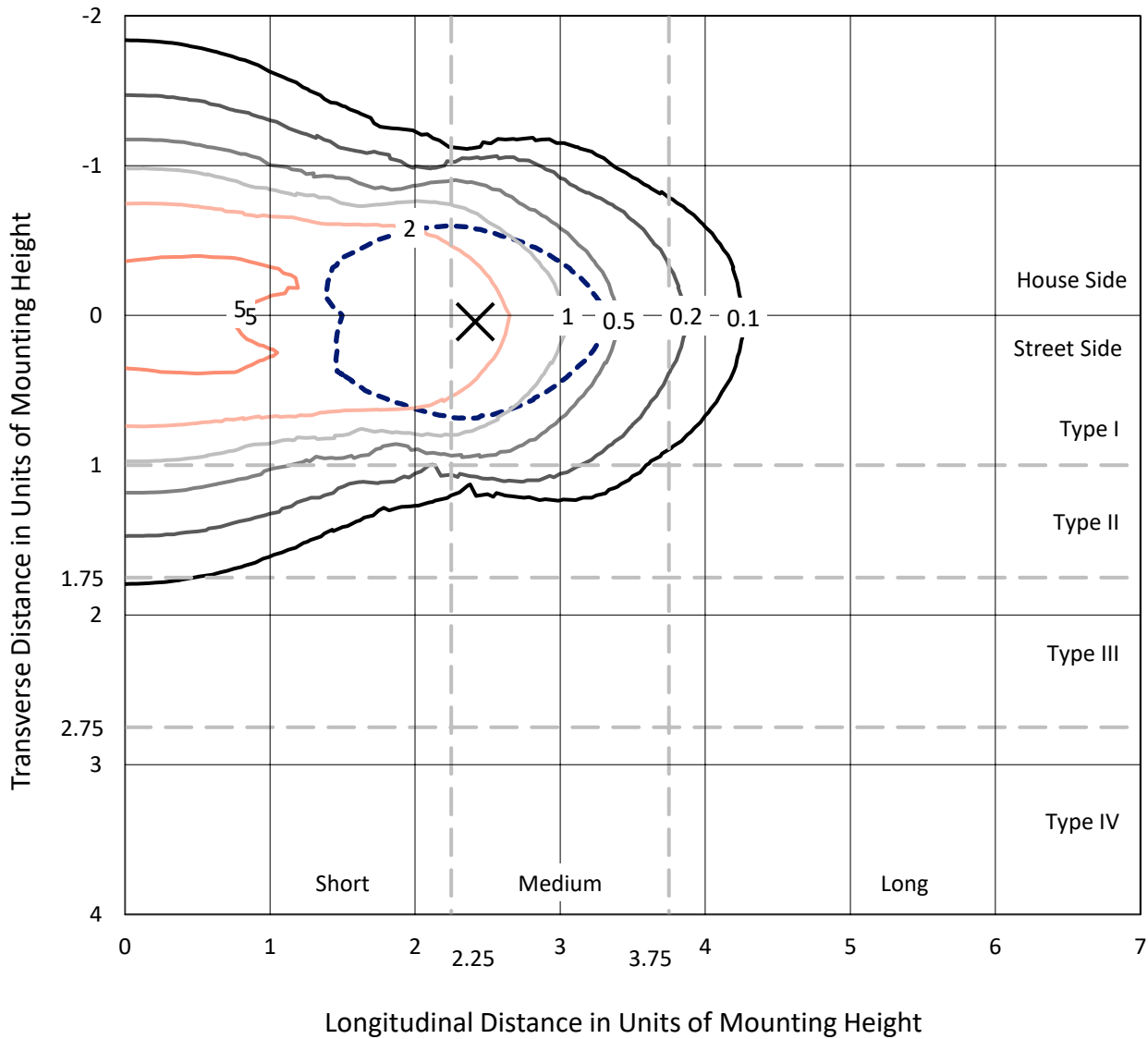
Lumens per Lamp: N/A  
Luminaire Lumens: 22259.3 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P637662  
 CATALOG NUMBER: GWS-SA4D-730-U-T1-W

### Iso-Footcandle Lines of Horizontal Illumination

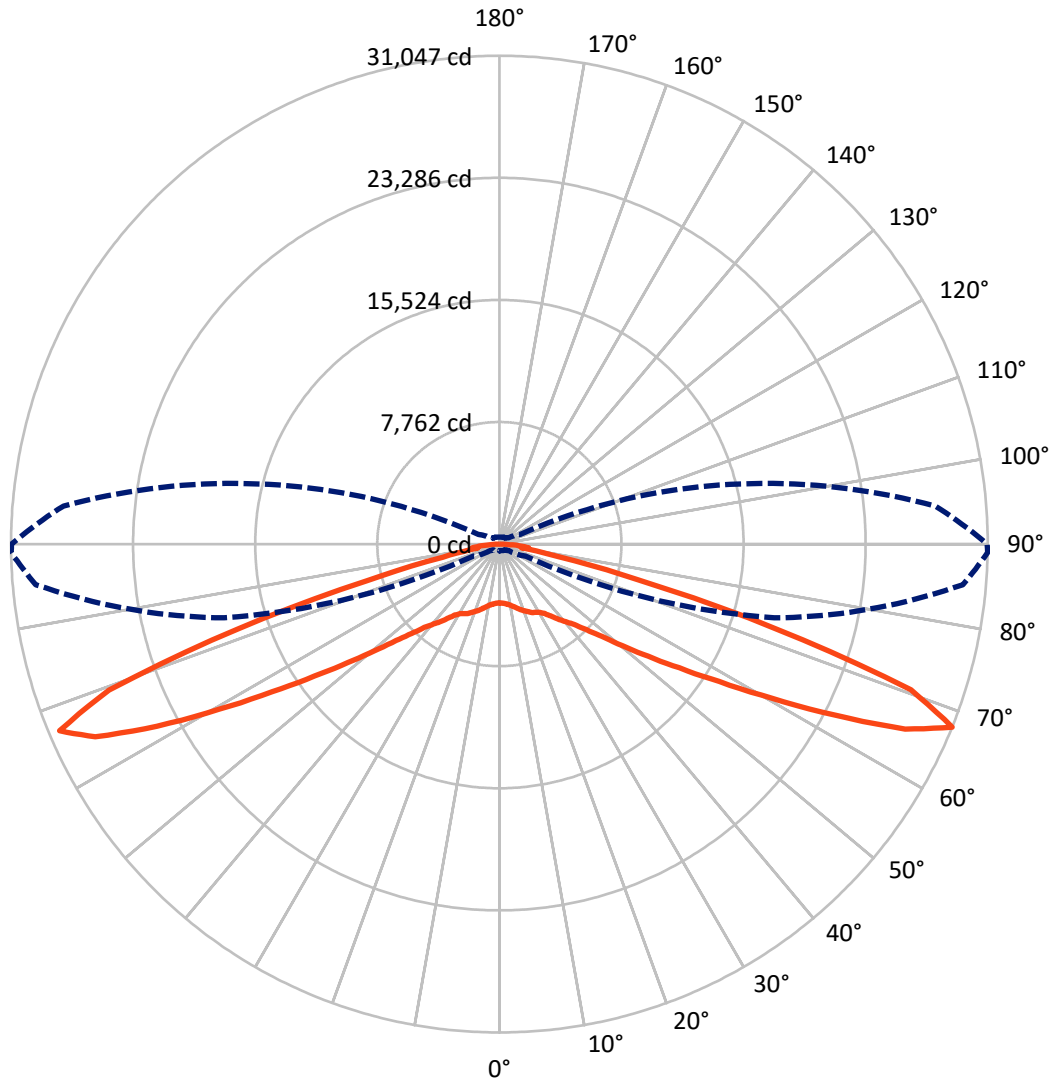
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type I - Medium - N/A

REPORT NUMBER: P637662  
CATALOG NUMBER: GWS-SA4D-730-U-T1-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637662

CATALOG NUMBER: GWS-SA4D-730-U-T1-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11032.1	0.0	11032.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	11227.2	0.0	11227.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	22259.3	0.0	22259.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.7	1.7
10°-20°	1220.3	5.5
20°-30°	2062.8	9.3
30°-40°	2830.9	12.7
40°-50°	3610.0	16.2
50°-60°	4529.3	20.3
60°-70°	5462.8	24.5
70°-80°	1976.3	8.9
80°-90°	192.2	0.9
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°	22259.3	100.0
0°-180°	22259.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637662

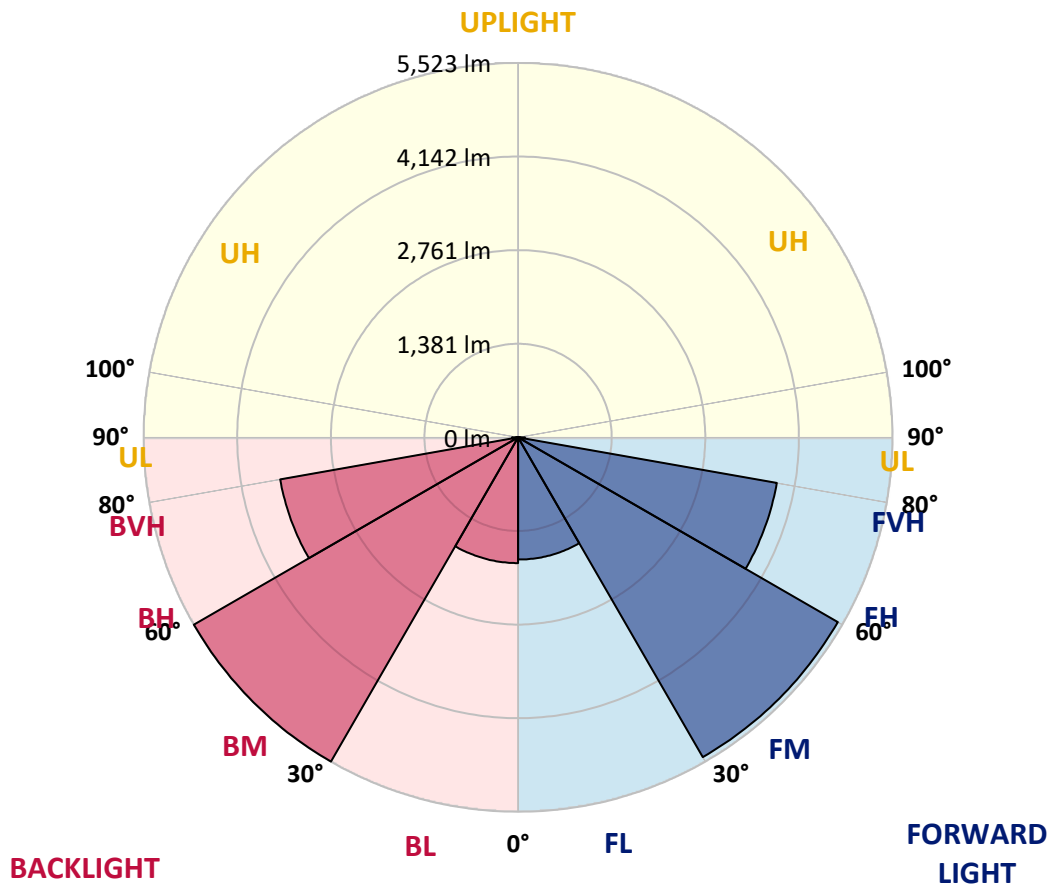
CATALOG NUMBER: GWS-SA4D-730-U-T1-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.8	8.1			
FM (30°-60°)	5447.3	24.5			
FH (60°-80°)	3875.7	17.4			G2/5000
FVH (80°-90°)	101.4	0.5			G2/225
BL (0°-30°)	1855.0	8.3	B3/2500		
BM (30°-60°)	5523.0	24.8	B4/8500		
BH (60°-80°)	3563.4	16.0	B4/5000		G4/5000
BVH (80°-90°)	90.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





REPORT NUMBER: P637662  
 CATALOG NUMBER: GWS-SA4D-730-U-T1-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0
2.5°	3747.2	3744.0	3736.0	3760.0	3755.2	3756.8	3766.4	3760.0	3748.8	3729.6	3756.8
5°	3852.7	3851.1	3833.6	3847.9	3832.0	3820.8	3819.2	3803.2	3790.4	3769.6	3798.4
7.5°	3955.1	3953.5	3939.1	3964.7	3951.9	3939.1	3924.7	3892.7	3862.3	3832.0	3863.9
10°	4033.4	4031.8	4028.6	4065.4	4068.6	4073.4	4067.0	4012.6	3959.9	3923.1	3955.1
12.5°	4078.2	4083.0	4090.9	4158.1	4191.7	4223.6	4231.6	4186.9	4098.9	4046.2	4084.5
15°	4047.8	4057.4	4097.3	4218.8	4311.6	4383.5	4413.9	4377.1	4263.6	4175.7	4218.8
17.5°	3902.3	3910.3	3988.6	4174.1	4378.7	4545.0	4594.5	4572.1	4445.8	4338.7	4380.3
20°	3700.9	3718.5	3803.2	4062.2	4367.5	4656.9	4789.6	4781.6	4644.1	4479.4	4529.0
22.5°	3518.6	3539.4	3628.9	3915.1	4292.4	4685.6	4986.2	5007.0	4824.7	4620.1	4660.1
25°	3314.0	3333.2	3448.3	3740.8	4162.9	4663.3	5154.0	5248.4	5029.4	4781.6	4818.3
27.5°	3104.6	3119.0	3232.5	3544.2	3993.4	4621.7	5286.7	5513.7	5230.8	4893.5	4919.0
30°	2920.7	2939.9	3043.8	3347.6	3808.0	4538.6	5395.4	5796.7	5462.6	5019.8	5040.5
32.5°	2743.3	2759.3	2872.8	3154.1	3611.3	4410.7	5493.0	6129.2	5806.3	5254.8	5254.8
35°	2519.5	2548.2	2676.1	2968.7	3425.9	4241.2	5563.3	6516.1	6276.3	5601.7	5603.3
37.5°	2313.2	2329.2	2463.5	2759.3	3230.9	4049.4	5569.7	6917.4	6871.0	6042.9	6046.1
40°	2078.2	2099.0	2242.9	2535.5	3007.1	3847.9	5508.9	7291.4	7494.5	6496.9	6479.3
42.5°	1840.0	1870.4	2007.9	2294.1	2765.7	3601.8	5347.5	7647.9	8285.8	7022.9	6979.7
45°	1609.8	1629.0	1766.5	2036.7	2489.1	3307.6	5088.5	7990.1	9225.8	7822.2	7759.8
47.5°	1350.9	1358.9	1501.1	1760.1	2202.9	2979.9	4717.6	8295.4	10258.5	8880.5	8773.4
50°	1120.7	1131.8	1243.7	1466.0	1852.8	2591.4	4255.6	8474.4	11574.2	10324.1	10138.6
52.5°	906.4	917.6	1007.1	1184.6	1531.5	2148.6	3683.3	8432.9	12909.1	12116.2	11846.0
55°	732.2	740.2	800.9	940.0	1205.4	1709.0	3007.1	8060.4	14391.0	14456.6	13874.7
57.5°	618.7	621.9	663.4	748.2	941.6	1317.3	2321.2	7181.1	15944.9	17442.9	16486.9
60°	553.1	554.7	573.9	626.7	743.4	1005.6	1701.0	5780.7	17554.8	21178.9	19868.0
62.5°	511.6	511.6	527.6	557.9	617.1	773.7	1250.1	4151.7	18710.6	25244.3	23941.4
65°	471.6	471.6	482.8	508.4	540.3	631.5	938.4	2677.7	19278.1	28643.0	28353.6
67.5°	420.4	422.0	430.0	457.2	486.0	527.6	711.4	1811.3	18099.9	29583.0	31047.4
70°	372.5	374.1	385.3	402.9	426.8	455.6	556.3	1248.5	13174.5	24638.4	27760.6
72.5°	319.7	326.1	334.1	353.3	367.7	388.5	454.0	808.9	7665.5	15849.0	18350.9
75°	262.2	270.2	279.8	298.9	308.5	316.5	374.1	577.1	3688.1	8031.6	9145.9
77.5°	203.0	211.0	222.2	239.8	246.2	255.8	286.2	417.2	1766.5	3560.2	3838.4
80°	135.9	139.1	148.7	169.5	180.6	187.0	211.0	284.6	767.4	1429.2	1416.4
82.5°	83.1	84.7	87.9	100.7	105.5	111.9	137.5	174.3	366.1	1624.2	1862.4
85°	30.4	28.8	27.2	35.2	41.6	48.0	63.9	87.9	159.9	1115.9	1248.5
87.5°	0.0	0.0	0.0	1.6	3.2	3.2	6.4	12.8	38.4	417.2	286.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637662  
 CATALOG NUMBER: GWS-SA4D-730-U-T1-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0	3736.0
2.5°	3748.8	3731.2	3753.6	3769.6	3804.8	3817.6	3820.8	3809.6	3809.6	3790.4	3793.6
5°	3792.0	3780.8	3817.6	3844.8	3895.9	3915.1	3927.9	3919.9	3924.7	3911.9	3915.1
7.5°	3857.5	3847.9	3911.9	3964.7	4017.4	4039.8	4051.0	4044.6	4046.2	4030.2	4035.0
10°	3948.7	3951.9	4028.6	4097.3	4167.7	4190.1	4194.9	4175.7	4159.7	4130.9	4132.5
12.5°	4073.4	4089.3	4198.1	4274.8	4346.7	4378.7	4343.5	4273.2	4207.6	4158.1	4151.7
15°	4209.2	4238.0	4394.7	4492.2	4570.5	4554.6	4450.6	4292.4	4162.9	4089.3	4075.0
17.5°	4372.3	4415.5	4612.1	4728.8	4795.9	4693.6	4476.2	4239.6	4059.0	3959.9	3940.7
20°	4525.8	4594.5	4842.3	4994.2	5002.2	4772.0	4465.0	4132.5	3905.5	3784.0	3758.4
22.5°	4666.5	4754.4	5083.7	5277.1	5173.2	4807.1	4396.3	3980.6	3720.1	3577.8	3555.4
25°	4819.9	4944.6	5365.1	5545.7	5344.3	4792.8	4252.4	3792.0	3496.2	3350.8	3334.8
27.5°	4925.4	5082.1	5648.0	5820.7	5485.0	4711.2	4067.0	3585.8	3291.6	3154.1	3131.8
30°	5046.9	5246.8	5959.8	6119.6	5571.3	4591.3	3868.7	3393.9	3101.4	2952.7	2936.7
32.5°	5267.6	5518.5	6346.6	6436.2	5598.5	4442.6	3678.5	3208.5	2903.1	2754.5	2732.1
35°	5622.5	5916.6	6890.2	6789.5	5577.7	4279.6	3497.8	2991.1	2700.1	2561.0	2538.7
37.5°	6070.1	6436.2	7496.1	7107.6	5520.1	4100.5	3283.6	2808.8	2517.9	2377.2	2364.4
40°	6487.3	6938.1	8175.5	7382.6	5403.4	3879.9	3077.4	2618.6	2321.2	2172.6	2143.8
42.5°	7010.1	7609.6	8962.0	7620.8	5211.6	3616.1	2845.6	2383.6	2075.0	1940.8	1905.6
45°	7804.6	8549.6	9876.5	7849.4	4925.4	3291.6	2554.6	2097.4	1804.9	1667.4	1640.2
47.5°	8795.8	9724.6	10867.6	7985.3	4490.6	2949.5	2225.3	1795.3	1502.7	1347.7	1334.9
50°	10188.2	11433.5	11930.7	7961.3	4004.6	2543.5	1854.4	1435.6	1191.0	1079.1	1061.5
52.5°	11884.4	13578.9	13080.2	7673.5	3488.3	2081.4	1445.2	1127.0	944.8	864.9	850.5
55°	14012.2	16148.0	14290.3	7056.4	2836.0	1593.9	1135.0	888.8	764.2	716.2	709.8
57.5°	16646.7	19474.7	15455.7	6017.3	2132.6	1216.6	874.5	733.8	674.6	645.9	644.3
60°	20123.8	23006.2	16467.7	4676.1	1526.7	930.4	722.6	655.4	609.1	589.9	588.3
62.5°	24257.9	26213.1	17097.6	3184.5	1147.8	741.8	636.3	594.7	567.5	556.3	554.7
65°	28507.1	28240.1	16797.0	2086.2	871.3	629.9	570.7	548.3	524.4	513.2	513.2
67.5°	31017.0	27811.7	14490.2	1448.4	690.6	553.1	514.8	494.0	454.0	444.4	444.4
70°	27472.8	22536.2	9497.6	1059.9	559.5	484.4	447.6	418.8	402.9	393.3	391.7
72.5°	18170.3	14664.4	5050.1	735.4	466.8	412.5	378.9	367.7	348.5	338.9	337.3
75°	9043.6	7702.3	2588.2	530.8	388.5	330.9	316.5	311.7	295.8	283.0	279.8
77.5°	3769.6	3429.1	1207.0	385.3	295.8	267.0	254.2	254.2	236.6	222.2	215.8
80°	1421.2	1266.1	570.7	263.8	219.0	198.2	190.2	183.8	169.5	151.9	142.3
82.5°	1900.8	1242.2	279.8	164.7	143.9	127.9	116.7	111.9	103.9	95.9	89.5
85°	1231.0	882.5	126.3	84.7	71.9	54.4	48.0	44.8	40.0	35.2	32.0
87.5°	251.0	295.8	38.4	16.0	9.6	4.8	4.8	1.6	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)