

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: P637651

Luminaire Tested: GWS-SA4D-730-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

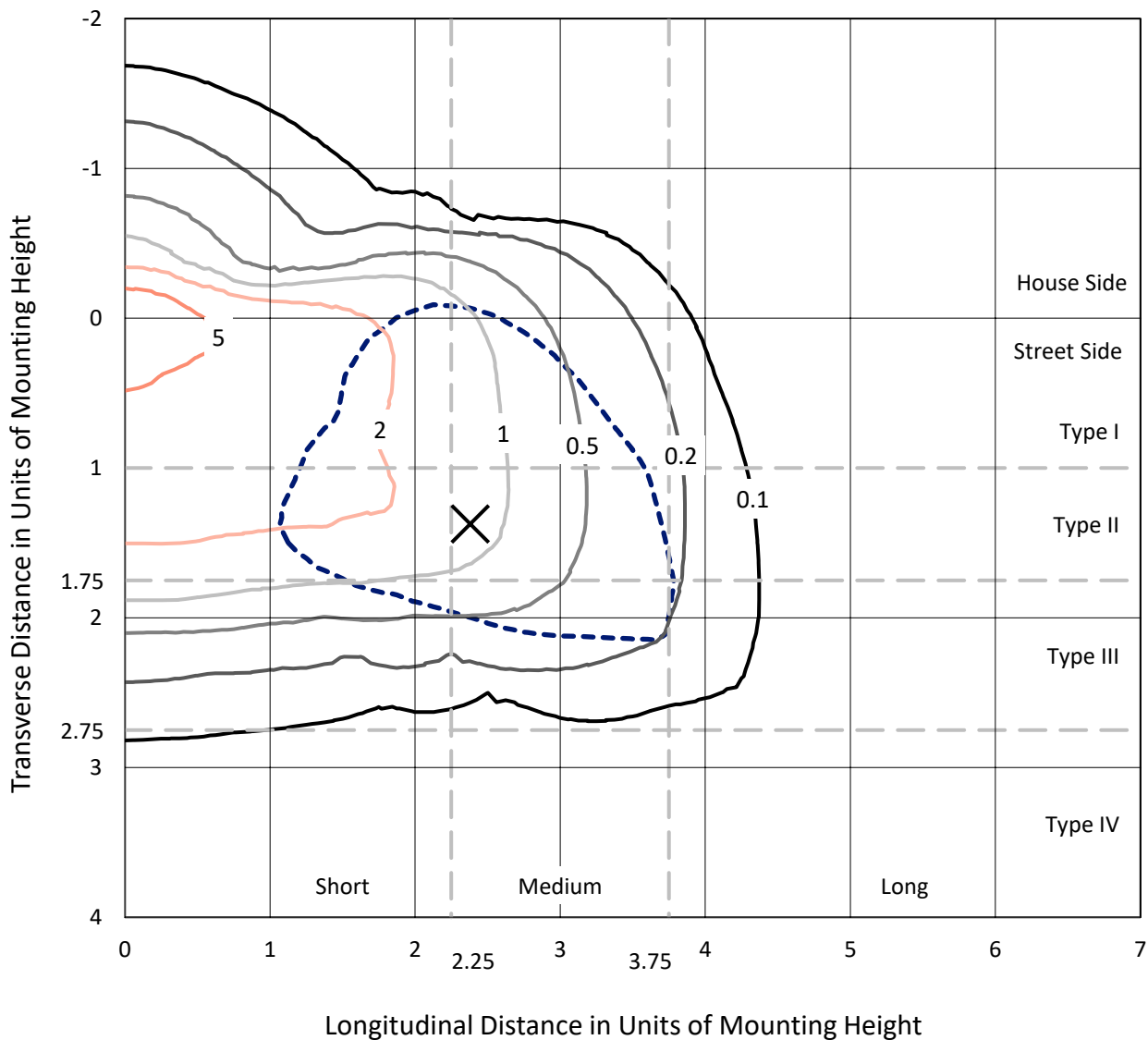
Lumens per Lamp: N/A  
Luminaire Lumens: 21850 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637651  
 CATALOG NUMBER: GWS-SA4D-730-U-SL3-W

### Iso-Footcandle Lines of Horizontal Illumination

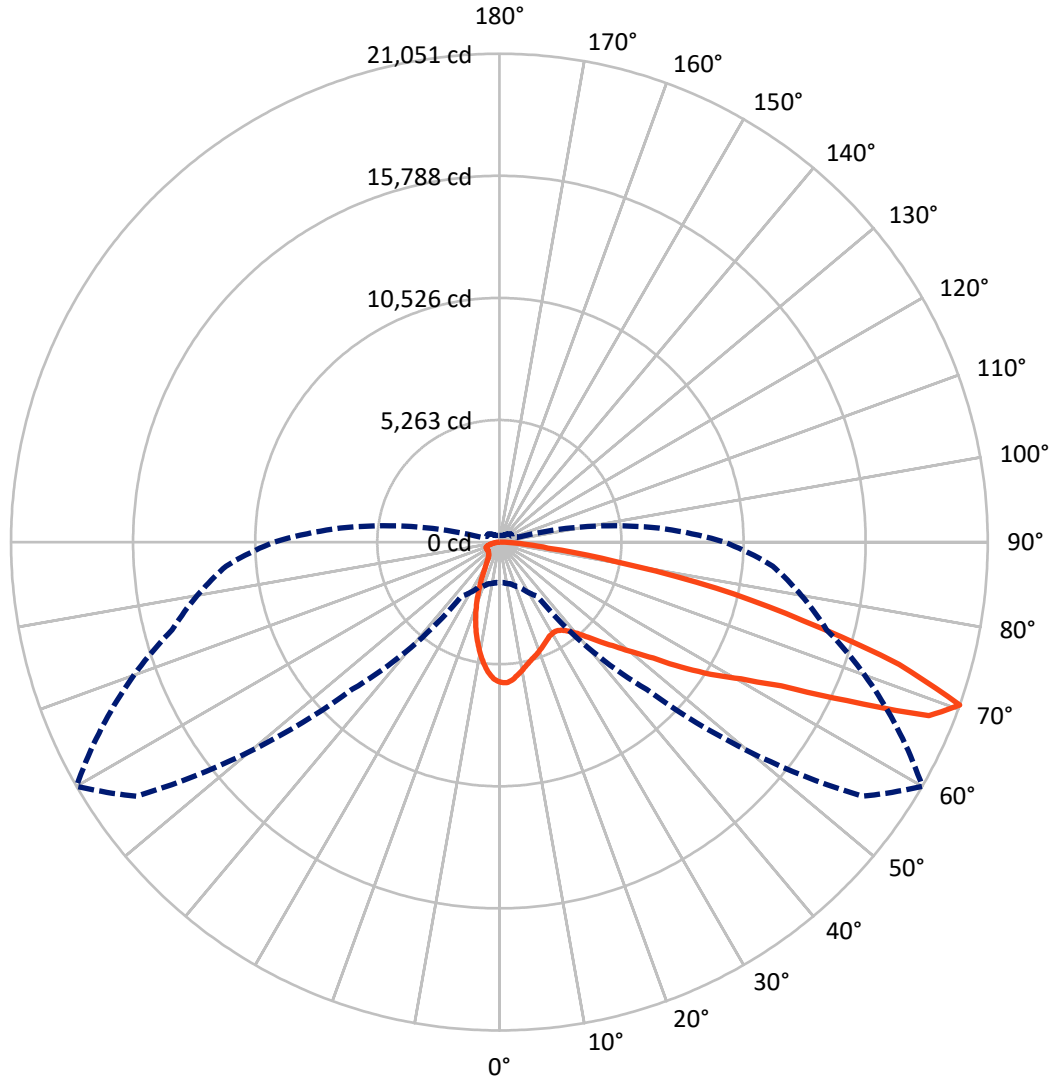
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P637651  
CATALOG NUMBER: GWS-SA4D-730-U-SL3-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P637651

CATALOG NUMBER: GWS-SA4D-730-U-SL3-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3736.9	0.0	3736.9
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	18113.1	0.0	18113.1
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	21850.0	0.0	21850.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.2	2.4
10°-20°	1167.6	5.3
20°-30°	1495.3	6.8
30°-40°	1965.1	9.0
40°-50°	2851.1	13.0
50°-60°	4448.4	20.4
60°-70°	5823.8	26.7
70°-80°	3220.3	14.7
80°-90°	357.4	1.6
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°	21850.0	100.0
0°-180°	21850.0	100.0

**Coefficient of Utilization**



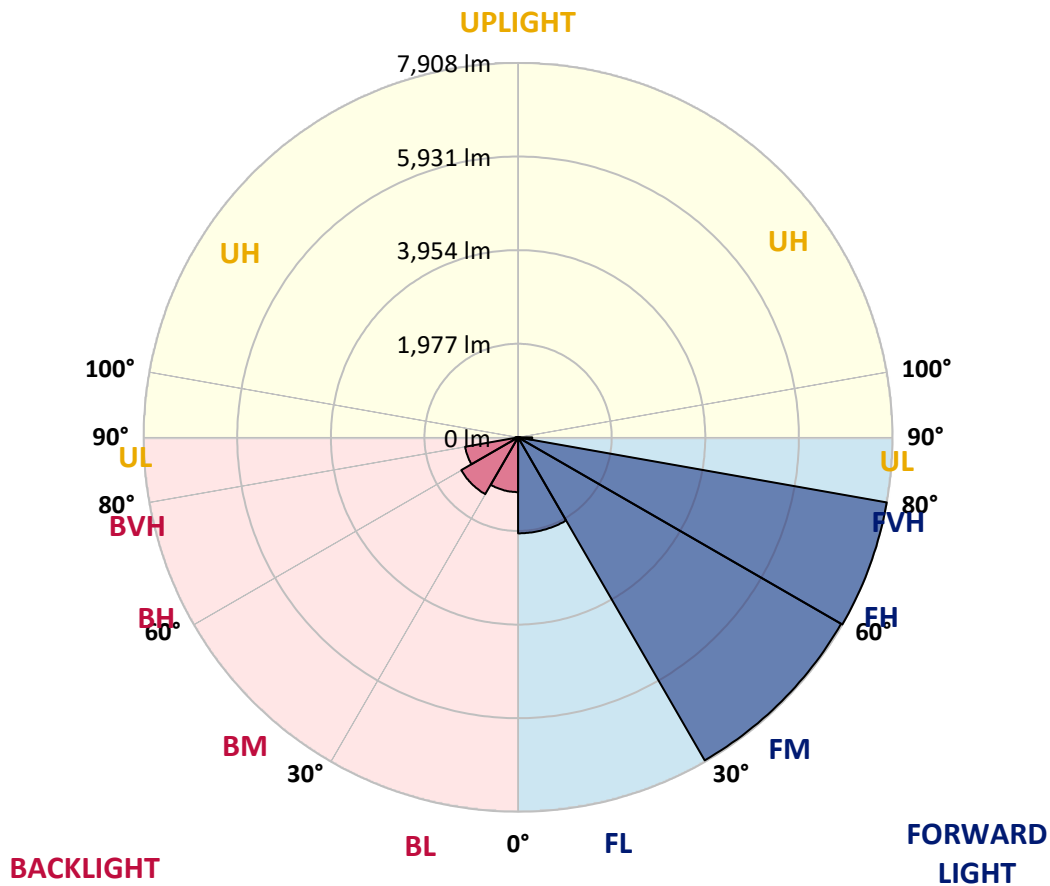
REPORT NUMBER: P637651

CATALOG NUMBER: GWS-SA4D-730-U-SL3-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.8	9.3			
FM (30°-60°)	7879.0	36.1			
FH (60°-80°)	7908.5	36.2			G4/12000
FVH (80°-90°)	297.8	1.4			G3/500
BL (0°-30°)	1156.1	5.3	B3/2500		
BM (30°-60°)	1385.5	6.3	B2/2500		
BH (60°-80°)	1135.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	59.6	0.3			G1/100
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 Medium





REPORT NUMBER: P637651  
 CATALOG NUMBER: GWS-SA4D-730-U-SL3-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2
2.5°	5961.4	5967.8	5985.4	6011.0	6036.6	6049.4	6081.3	6071.8	6065.4	6052.6	6036.6
5°	5697.7	5710.5	5726.4	5776.0	5832.0	5876.7	5948.7	5956.7	5959.8	5966.2	5940.7
7.5°	5361.9	5365.1	5403.5	5469.1	5542.6	5619.3	5739.2	5772.8	5801.6	5833.6	5812.8
10°	4991.1	4999.0	5027.8	5122.1	5248.4	5361.9	5523.4	5579.4	5640.1	5710.5	5681.7
12.5°	4687.3	4688.9	4735.3	4836.0	4973.5	5126.9	5328.4	5395.5	5475.5	5585.8	5560.2
15°	4445.9	4445.9	4489.1	4575.4	4733.7	4914.3	5154.1	5240.4	5349.2	5497.8	5453.1
17.5°	4254.1	4255.7	4282.8	4374.0	4514.6	4714.5	4999.0	5115.8	5235.7	5432.3	5365.1
20°	4153.4	4145.4	4150.2	4206.1	4326.0	4519.4	4844.0	4979.9	5141.3	5387.5	5285.2
22.5°	4148.6	4134.2	4113.4	4118.2	4188.5	4348.4	4677.7	4842.4	5045.4	5350.8	5203.7
25°	4230.1	4214.1	4177.3	4135.8	4129.4	4225.3	4521.0	4708.1	4946.3	5334.8	5125.3
27.5°	4367.6	4356.4	4308.4	4246.1	4180.5	4177.3	4402.7	4597.8	4874.4	5350.8	5069.4
30°	4549.8	4530.6	4500.3	4420.3	4321.2	4218.9	4356.4	4538.6	4826.4	5401.9	5045.4
32.5°	4756.0	4744.9	4716.1	4636.1	4530.6	4367.6	4393.2	4551.4	4826.4	5491.4	5050.2
35°	4975.1	4973.5	4973.5	4920.7	4804.0	4601.0	4538.6	4660.1	4899.9	5635.3	5101.4
37.5°	5187.7	5186.1	5237.2	5256.4	5123.7	4904.7	4786.4	4877.5	5061.4	5847.9	5227.7
40°	5360.3	5366.7	5478.6	5574.6	5501.0	5298.0	5131.7	5178.1	5323.6	6150.1	5448.3
42.5°	5534.6	5552.2	5720.0	5889.5	5918.3	5742.4	5574.6	5601.7	5699.3	6549.8	5777.6
45°	5724.8	5732.8	5967.8	6204.4	6343.5	6239.6	6102.1	6138.9	6161.3	7043.7	6268.4
47.5°	5908.7	5929.5	6233.2	6557.8	6821.5	6811.9	6735.2	6724.0	6728.8	7644.8	6848.7
50°	6159.7	6190.1	6546.6	6938.2	7325.1	7502.6	7524.9	7440.2	7405.0	8313.1	7571.3
52.5°	6636.1	6636.1	6955.8	7341.1	7860.7	8300.3	8450.6	8311.5	8199.6	9019.7	8338.7
55°	7232.4	7258.0	7512.2	7823.9	8482.6	9139.6	9648.0	9494.5	9178.0	9788.7	9142.8
57.5°	7497.8	7529.7	7932.6	8417.0	9296.3	10094.0	10799.0	10744.7	10282.7	10588.0	9977.3
60°	7018.2	7085.3	7640.1	8452.2	10033.3	11633.5	12130.7	11972.5	11312.2	11427.3	10882.2
62.5°	5854.3	5927.9	6543.4	7676.8	9931.0	13297.8	14229.8	13646.3	12597.5	12487.2	12087.6
65°	3493.1	3489.9	4230.1	5732.8	8669.6	13759.8	17551.8	16463.1	14583.1	13942.0	13328.1
67.5°	2220.6	2215.8	2370.8	3037.5	5769.6	12627.9	19687.6	19970.6	17280.0	15011.5	13430.4
70°	1752.1	1750.5	1862.5	2166.2	2853.6	8986.1	19092.9	21051.3	18909.1	14603.9	11825.4
72.5°	1277.3	1280.5	1453.2	1814.5	2201.4	4511.5	15460.8	18012.2	17392.0	12891.7	9600.0
75°	917.6	922.4	1026.3	1389.2	2030.3	2466.8	10281.1	13543.9	13232.2	10333.8	6604.1
77.5°	583.5	589.9	681.0	973.6	1640.2	1991.9	6233.2	9561.7	8803.9	5822.4	2348.4
80°	356.5	377.3	454.0	725.8	1310.9	1494.8	3115.8	5037.4	4409.1	1597.1	789.7
82.5°	183.8	199.8	273.4	449.2	903.2	1312.5	1763.3	2116.6	1365.3	668.2	420.5
85°	57.6	67.1	95.9	182.2	430.0	813.7	1167.0	1051.9	626.7	314.9	195.0
87.5°	14.4	14.4	16.0	16.0	17.6	36.8	225.4	238.2	166.3	99.1	79.9
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: P637651  
 CATALOG NUMBER: GWS-SA4D-730-U-SL3-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2	6046.2
2.5°	6004.6	5966.2	5950.3	5948.7	5908.7	5851.1	5812.8	5785.6	5769.6	5766.4	5766.4
5°	5897.5	5847.9	5782.4	5732.8	5625.7	5517.0	5425.9	5374.7	5315.6	5307.6	5306.0
7.5°	5755.2	5683.3	5558.6	5419.5	5232.5	5051.8	4898.3	4794.4	4690.5	4671.3	4664.9
10°	5601.7	5504.2	5291.6	5047.0	4767.2	4497.1	4262.1	4078.2	3956.7	3870.4	3854.4
12.5°	5449.9	5320.4	5008.6	4644.1	4260.5	3891.2	3537.9	3237.3	3019.9	2893.6	2871.2
15°	5307.6	5126.9	4700.1	4234.9	3736.1	3230.9	2730.5	2340.5	2035.1	1926.4	1900.8
17.5°	5178.1	4952.7	4401.1	3811.2	3189.4	2529.1	1960.0	1613.1	1434.0	1379.7	1366.9
20°	5048.6	4773.6	4097.4	3365.2	2609.0	1868.8	1432.4	1269.3	1202.2	1181.4	1175.0
22.5°	4909.5	4577.0	3766.5	2925.6	2022.3	1398.8	1171.8	1099.9	1079.1	1080.7	1079.1
25°	4770.4	4377.2	3419.6	2447.6	1505.9	1135.1	1023.2	996.0	1000.8	1015.2	1018.4
27.5°	4655.3	4199.7	3079.0	1923.2	1176.6	976.8	924.0	922.4	940.0	959.2	962.4
30°	4572.2	4041.4	2743.3	1478.8	968.8	868.1	847.3	856.9	877.7	892.1	896.9
32.5°	4513.1	3905.6	2385.2	1162.2	848.9	791.3	781.8	791.3	804.1	818.5	821.7
35°	4492.3	3806.4	2033.5	948.0	767.4	735.4	729.0	733.8	740.2	748.2	751.4
37.5°	4538.6	3756.9	1665.8	824.9	717.8	698.6	689.0	685.8	687.4	690.6	692.2
40°	4676.1	3779.3	1365.3	753.0	685.8	668.2	652.3	645.9	644.3	647.5	645.9
42.5°	4912.7	3873.6	1147.8	711.4	660.3	634.7	617.1	610.7	610.7	618.7	618.7
45°	5259.6	4059.0	991.2	681.0	637.9	605.9	586.7	583.5	589.9	602.7	604.3
47.5°	5768.0	4330.8	896.9	658.7	617.1	580.3	561.1	559.5	572.3	593.1	594.7
50°	6370.7	4722.5	845.7	642.7	602.7	559.5	540.4	541.9	556.3	578.7	583.5
52.5°	7096.5	5256.4	848.9	636.3	594.7	546.7	527.6	524.4	538.8	561.1	565.9
55°	7846.3	5905.5	911.2	637.9	583.5	540.4	514.8	503.6	516.4	532.4	534.0
57.5°	8671.2	6637.7	1066.3	634.7	569.1	534.0	503.6	478.0	486.0	495.6	500.4
60°	9601.6	7499.4	1400.4	641.1	562.7	519.6	481.2	447.6	446.0	452.4	454.0
62.5°	10845.4	8671.2	1776.1	652.3	577.1	502.0	447.6	412.5	406.1	409.3	410.9
65°	11796.6	9230.7	1657.8	642.7	607.5	489.2	415.7	378.9	366.1	362.9	362.9
67.5°	11409.7	8490.5	1154.2	617.1	621.9	490.8	390.1	343.7	327.7	319.7	318.1
70°	9708.7	6896.7	802.5	591.5	605.9	487.6	362.9	314.9	294.2	283.0	281.4
72.5°	7670.4	5266.0	649.1	540.4	549.9	439.6	322.9	283.0	265.4	251.0	251.0
75°	4936.7	3213.3	541.9	481.2	449.2	342.1	279.8	252.6	235.0	220.6	220.6
77.5°	1661.0	1192.6	420.5	407.7	335.7	257.4	235.0	217.4	203.0	190.2	188.6
80°	674.6	565.9	308.5	308.5	235.0	196.6	183.8	175.9	166.3	150.3	150.3
82.5°	391.7	343.7	215.8	187.0	156.7	135.9	127.9	119.9	119.9	108.7	108.7
85°	188.6	190.2	129.5	115.1	89.5	78.3	75.1	70.3	68.7	62.3	60.7
87.5°	102.3	103.9	65.5	51.2	35.2	30.4	25.6	24.0	22.4	20.8	20.8
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)