

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: P640452

Luminaire Tested: GWS-SA5D-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23451 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

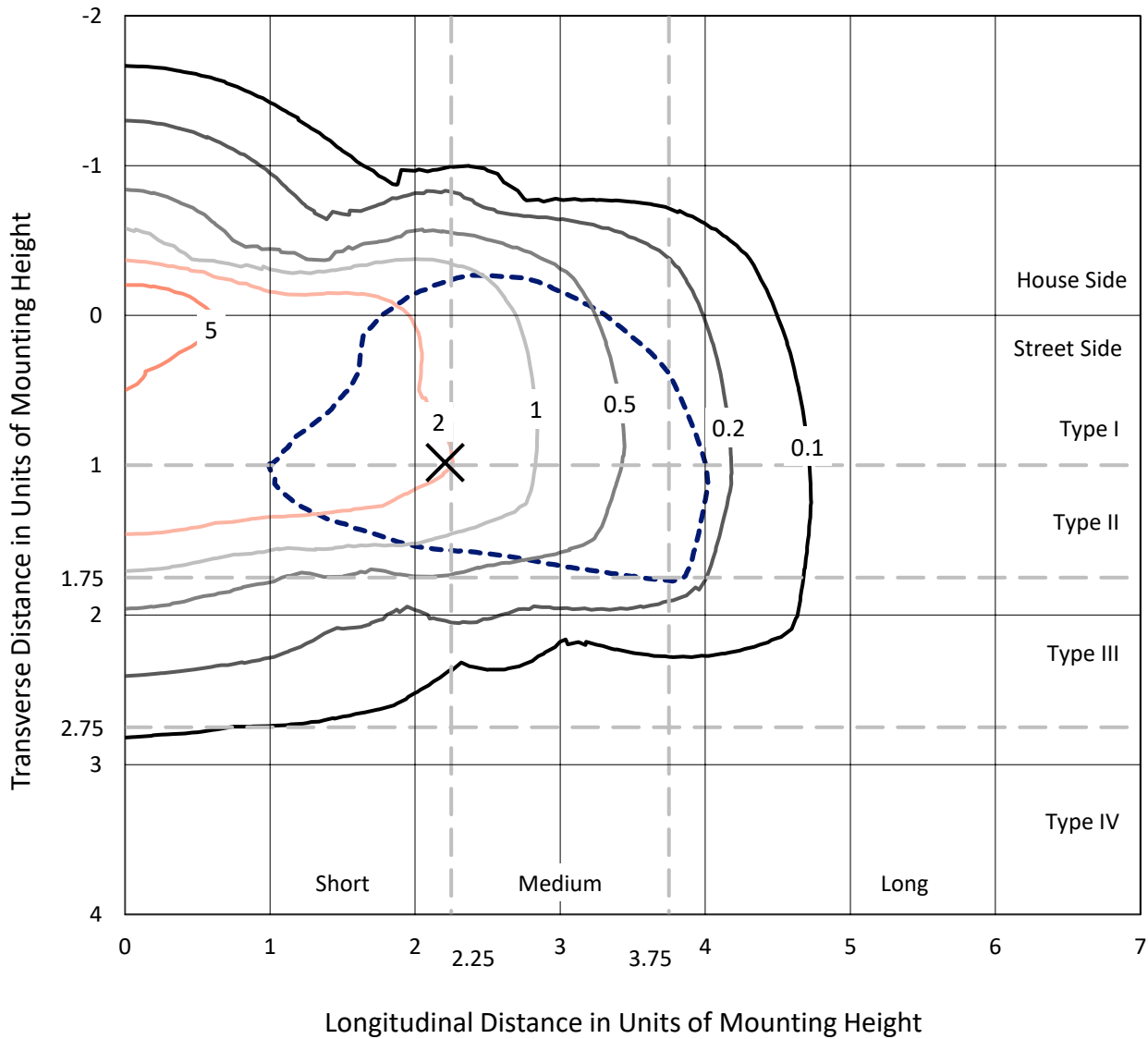
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

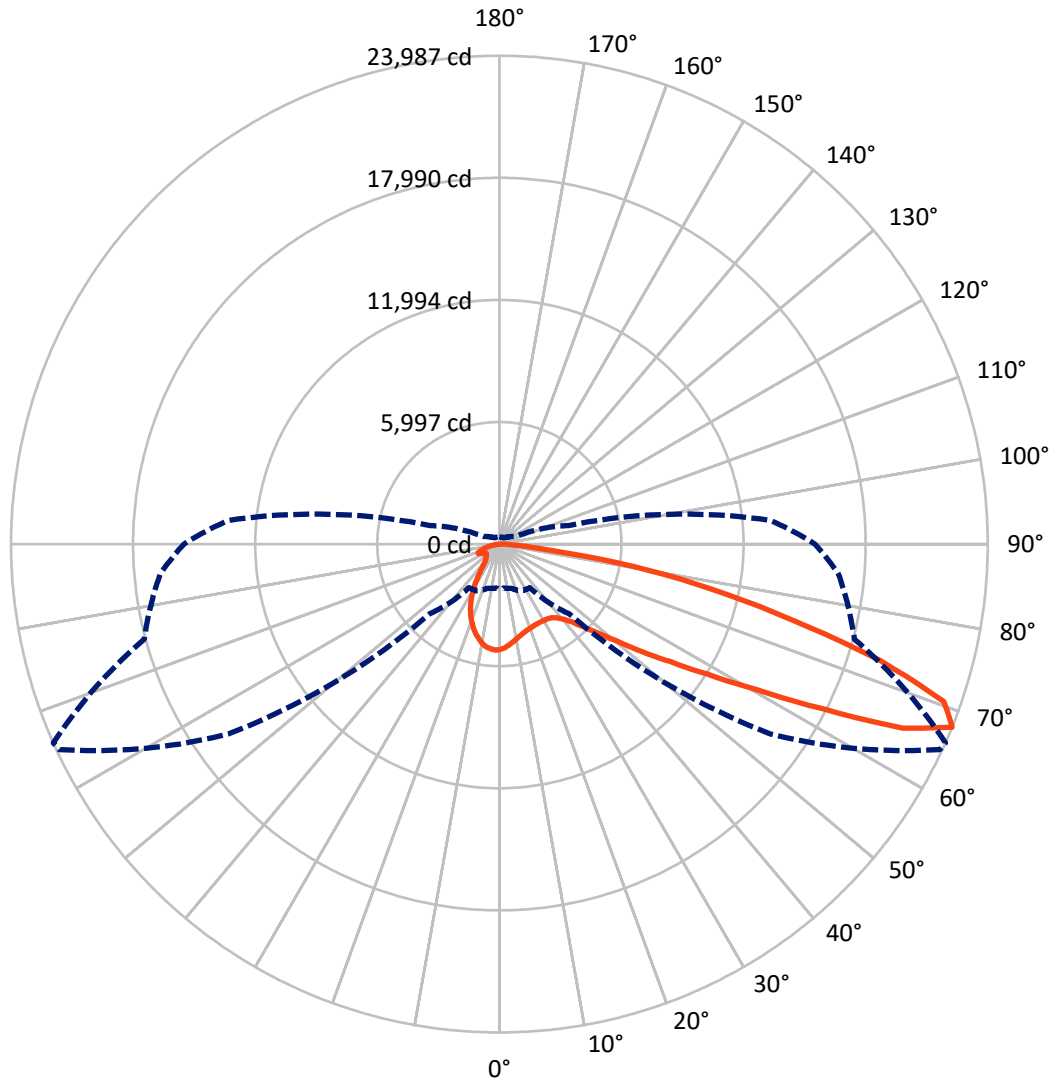
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4758.7	0.0	4758.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18692.2	0.0	18692.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	23451.0	0.0	23451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.8	1.9
10°-20°	1117.7	4.8
20°-30°	1536.3	6.6
30°-40°	2100.4	9.0
40°-50°	3182.6	13.6
50°-60°	4947.5	21.1
60°-70°	6023.4	25.7
70°-80°	3669.2	15.6
80°-90°	419.1	1.8
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°	23451.0	100.0
0°-180°	23451.0	100.0

Coefficient of Utilization



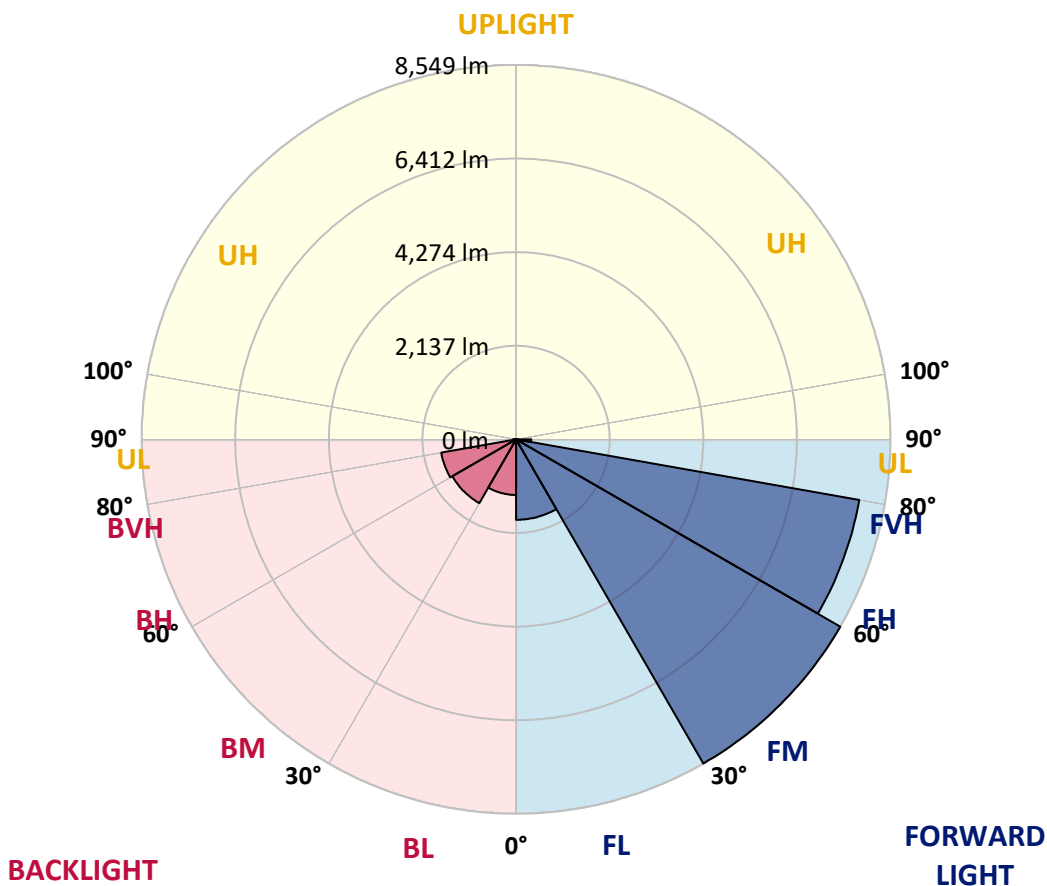
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.5	7.8			
FM (30°-60°)	8548.8	36.5			
FH (60°-80°)	7957.5	33.9			G4/12000
FVH (80°-90°)	348.5	1.5			G3/500
BL (0°-30°)	1271.3	5.4	B3/2500		
BM (30°-60°)	1681.7	7.2	B2/2500		
BH (60°-80°)	1735.1	7.4	B3/2500		G3/2500
BVH (80°-90°)	70.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0
2.5°	4853.5	4870.6	4860.4	4925.4	4928.8	5010.9	5057.1	5096.5	5099.9	5151.2	5185.4
5°	4521.6	4531.9	4531.9	4593.5	4634.6	4744.0	4850.1	4963.0	4971.6	5094.8	5188.8
7.5°	4253.0	4263.3	4256.5	4338.6	4391.6	4513.1	4648.2	4821.0	4838.1	5036.6	5200.8
10°	4042.6	4039.2	4056.3	4131.6	4200.0	4345.4	4496.0	4692.7	4718.4	4969.9	5214.5
12.5°	3898.9	3902.3	3912.6	3991.3	4064.9	4208.6	4364.2	4578.1	4605.5	4892.9	5207.7
15°	3830.5	3823.6	3832.2	3904.0	3974.2	4100.8	4261.6	4482.3	4509.7	4824.4	5209.4
17.5°	3815.1	3809.9	3808.2	3859.6	3912.6	4030.6	4184.6	4408.7	4437.8	4780.0	5219.6
20°	3863.0	3856.1	3837.3	3859.6	3881.8	3981.0	4129.9	4355.7	4388.2	4750.9	5240.2
22.5°	3994.7	3982.7	3953.7	3926.3	3897.2	3957.1	4095.6	4316.3	4348.8	4732.1	5260.7
25°	4194.9	4184.6	4153.8	4092.2	3986.2	3975.9	4088.8	4299.2	4331.7	4718.4	5269.3
27.5°	4470.3	4454.9	4424.1	4335.2	4162.4	4046.0	4114.5	4297.5	4328.3	4703.0	5260.7
30°	4797.1	4786.8	4769.7	4661.9	4431.0	4194.9	4172.6	4311.2	4335.2	4694.4	5243.6
32.5°	5129.0	5118.7	5132.4	5081.1	4797.1	4441.2	4299.2	4348.8	4366.0	4692.7	5228.2
35°	5421.5	5433.5	5532.7	5541.3	5262.4	4774.8	4499.4	4436.1	4439.5	4726.9	5235.0
37.5°	5727.7	5773.9	5904.0	6015.2	5782.5	5216.2	4797.1	4600.3	4596.9	4814.2	5277.8
40°	6133.2	6153.7	6319.7	6528.4	6383.0	5821.8	5219.6	4868.9	4845.0	4992.1	5392.4
42.5°	6528.4	6578.0	6843.2	7082.7	7034.8	6504.5	5751.7	5271.0	5228.2	5306.9	5628.5
45°	7031.4	7079.3	7377.0	7684.9	7772.2	7276.0	6432.6	5842.4	5799.6	5780.8	6061.4
47.5°	7534.4	7584.0	7850.8	8295.7	8601.9	8240.9	7318.8	6596.8	6526.7	6453.1	6714.9
50°	7873.1	7931.3	8186.2	8719.9	9438.5	9445.3	8369.2	7585.7	7496.7	7380.4	7635.3
52.5°	7861.1	7898.8	8141.7	8757.6	10040.7	10829.3	9775.5	8844.8	8773.0	8519.8	8742.2
55°	7243.5	7300.0	7544.6	8314.5	10105.7	12141.5	11842.1	10329.8	10201.5	9748.1	9992.8
57.5°	6003.2	6051.1	6297.4	7246.9	9529.1	12813.9	14466.5	12221.9	12045.7	11086.0	11368.2
60°	4531.9	4473.7	4590.1	5421.5	8150.2	12831.0	16782.9	14788.1	14493.9	12516.2	12752.3
62.5°	3401.1	3342.9	3368.6	3602.9	5525.9	11794.2	18103.7	18298.7	17812.8	14131.2	14085.0
65°	2687.7	2655.2	2728.7	2889.5	3221.4	8981.7	18113.9	22094.9	21788.7	16002.8	15451.9
67.5°	2189.8	2169.3	2244.6	2542.2	2612.4	4826.2	16242.3	23867.3	23987.1	18052.3	16719.6
70°	1763.8	1733.0	1851.1	2242.9	2429.3	2920.3	11635.1	22964.0	23157.4	19273.8	16362.1
72.5°	1218.1	1219.8	1279.7	1816.9	2345.5	2521.7	6581.4	19121.6	19540.7	18167.0	14384.4
75°	821.2	828.0	845.1	1199.3	2160.7	2446.4	3507.1	14476.8	14772.7	15015.7	11890.0
77.5°	496.1	499.6	538.9	725.4	1490.1	2283.9	2376.3	10494.0	10726.7	9898.7	7370.1
80°	287.4	299.4	335.3	485.9	1005.9	1715.9	1839.1	6434.3	6697.8	4400.2	2342.1
82.5°	126.6	135.2	183.1	282.3	586.8	1459.3	1435.4	2542.2	2504.6	1226.6	812.6
85°	22.2	27.4	39.3	89.0	215.6	769.9	1113.7	1122.3	1055.6	465.3	337.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	167.7	301.1	299.4	131.7	116.3
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°	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0	5182.0
2.5°	5207.7	5161.5	5202.5	5207.7	5199.1	5192.3	5140.9	5096.5	5091.3	5043.4	5043.4
5°	5226.5	5183.7	5204.2	5164.9	5103.3	5040.0	4930.5	4855.2	4821.0	4759.4	4759.4
7.5°	5252.1	5207.7	5183.7	5086.2	4942.5	4803.9	4627.7	4480.6	4420.7	4333.4	4330.0
10°	5276.1	5219.6	5137.5	4947.6	4718.4	4497.7	4241.1	4032.3	3890.4	3786.0	3786.0
12.5°	5274.4	5200.8	5038.3	4757.7	4441.2	4121.3	3779.2	3464.4	3276.2	3113.7	3103.4
15°	5271.0	5170.0	4911.7	4537.0	4117.9	3674.8	3209.5	2798.9	2520.0	2360.9	2347.2
17.5°	5267.5	5130.7	4769.7	4285.5	3724.4	3120.5	2506.3	2061.5	1828.8	1731.3	1734.7
20°	5267.5	5086.2	4617.4	3996.4	3271.0	2456.7	1839.1	1515.8	1457.6	1462.7	1467.9
22.5°	5252.1	5031.5	4448.1	3681.6	2766.4	1806.6	1356.7	1247.2	1278.0	1325.9	1332.7
25°	5216.2	4940.8	4251.3	3332.6	2165.9	1315.6	1106.9	1086.4	1142.8	1202.7	1219.8
27.5°	5159.8	4836.4	4030.6	2923.8	1594.5	1057.3	973.4	971.7	1016.2	1060.7	1076.1
30°	5099.9	4720.1	3798.0	2468.7	1154.8	920.4	887.9	887.9	910.1	937.5	934.1
32.5°	5029.7	4602.0	3548.2	1994.8	940.9	843.4	833.2	828.0	831.4	841.7	841.7
35°	4969.9	4497.7	3291.6	1493.5	843.4	800.7	790.4	778.4	773.3	766.4	769.9
37.5°	4947.6	4415.6	3026.4	1125.7	795.5	769.9	752.8	735.6	723.7	720.2	718.5
40°	4983.6	4381.4	2761.2	927.3	761.3	737.4	718.5	696.3	686.0	686.0	686.0
42.5°	5123.8	4407.0	2490.9	838.3	737.4	710.0	682.6	662.1	658.7	662.1	663.8
45°	5380.5	4506.2	2210.4	793.8	716.8	682.6	650.1	634.7	634.7	638.1	638.1
47.5°	5839.0	4766.3	1933.2	766.4	696.3	660.4	626.2	610.8	609.0	612.5	612.5
50°	6632.8	5235.0	1683.4	747.6	680.9	643.3	609.0	588.5	583.4	581.7	581.7
52.5°	7633.6	6047.7	1524.3	733.9	662.1	624.4	590.2	562.9	552.6	547.5	547.5
55°	8843.1	7130.6	1524.3	723.7	638.1	602.2	562.9	535.5	520.1	513.2	513.2
57.5°	10213.5	8391.5	1787.8	715.1	619.3	576.5	533.8	506.4	489.3	479.0	479.0
60°	11607.8	9724.2	2439.6	703.1	602.2	544.0	501.3	475.6	453.4	441.4	439.7
62.5°	13053.4	11192.0	3298.4	710.0	590.2	513.2	467.0	438.0	419.1	407.2	405.5
65°	14377.5	12589.8	4049.5	763.0	591.9	485.9	427.7	402.0	386.6	371.2	369.5
67.5°	15501.5	13361.3	3522.5	870.8	627.9	453.4	388.4	362.7	349.0	338.7	337.0
70°	14714.6	12184.3	1998.2	937.5	677.5	419.1	343.9	326.8	313.1	306.2	304.5
72.5°	12582.9	10316.1	1336.1	828.0	617.6	374.7	302.8	289.1	278.9	270.3	268.6
75°	10192.9	8181.0	1021.3	679.2	480.7	304.5	260.0	249.8	239.5	231.0	229.2
77.5°	6030.6	4726.9	752.8	537.2	338.7	237.8	215.6	207.0	196.7	189.9	188.2
80°	1924.6	1642.4	477.3	369.5	224.1	183.1	165.9	159.1	148.8	140.3	138.6
82.5°	733.9	634.7	253.2	188.2	148.8	124.9	111.2	104.4	97.5	89.0	87.3
85°	325.1	304.5	140.3	100.9	80.4	61.6	54.7	51.3	42.8	35.9	34.2
87.5°	114.6	114.6	59.9	29.1	17.1	8.6	5.1	1.7	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)