

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: P636003

Luminaire Tested: GWS-SA3E-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16777.9 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

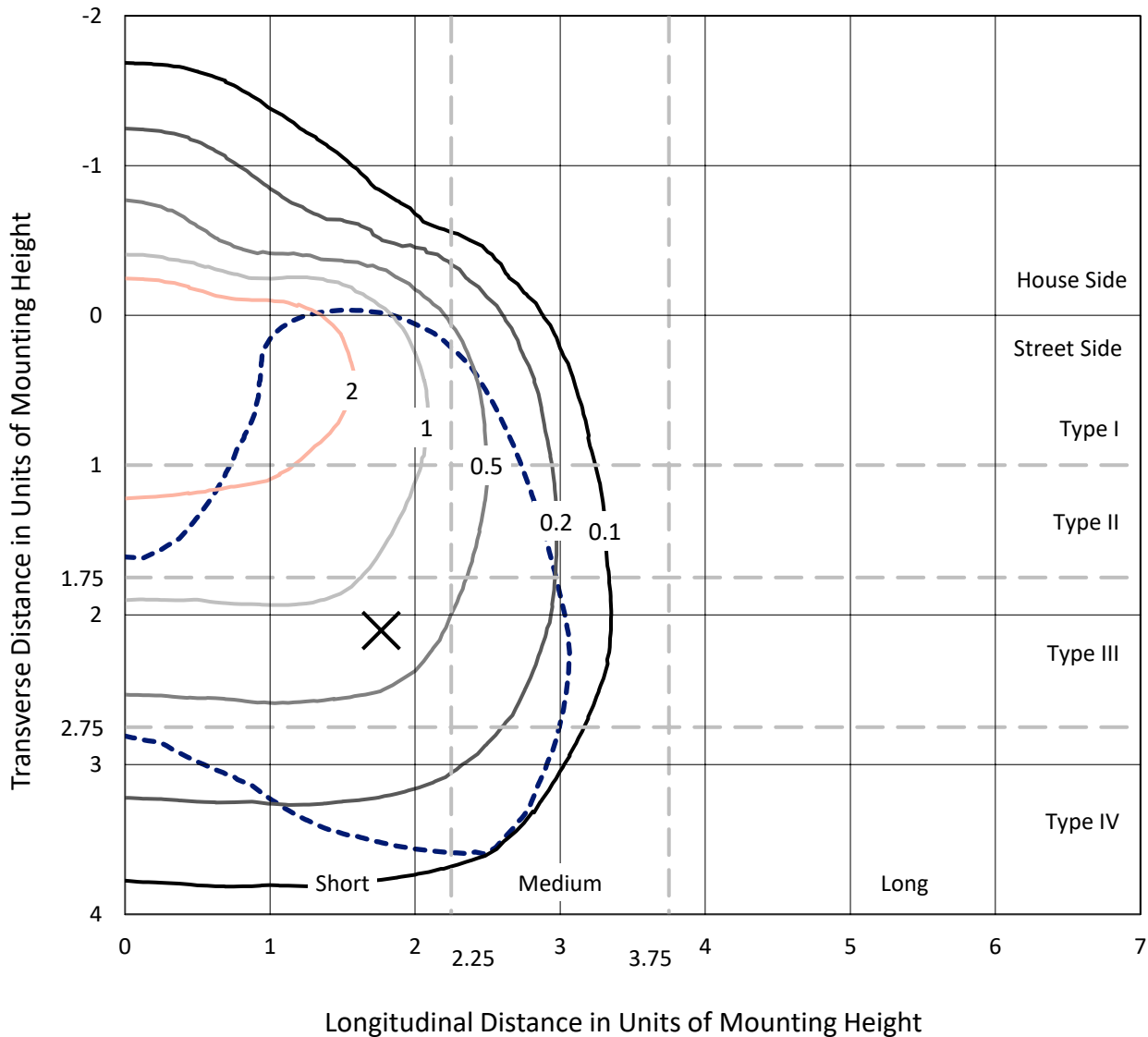
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636003
 CATALOG NUMBER: GWS-SA3E-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

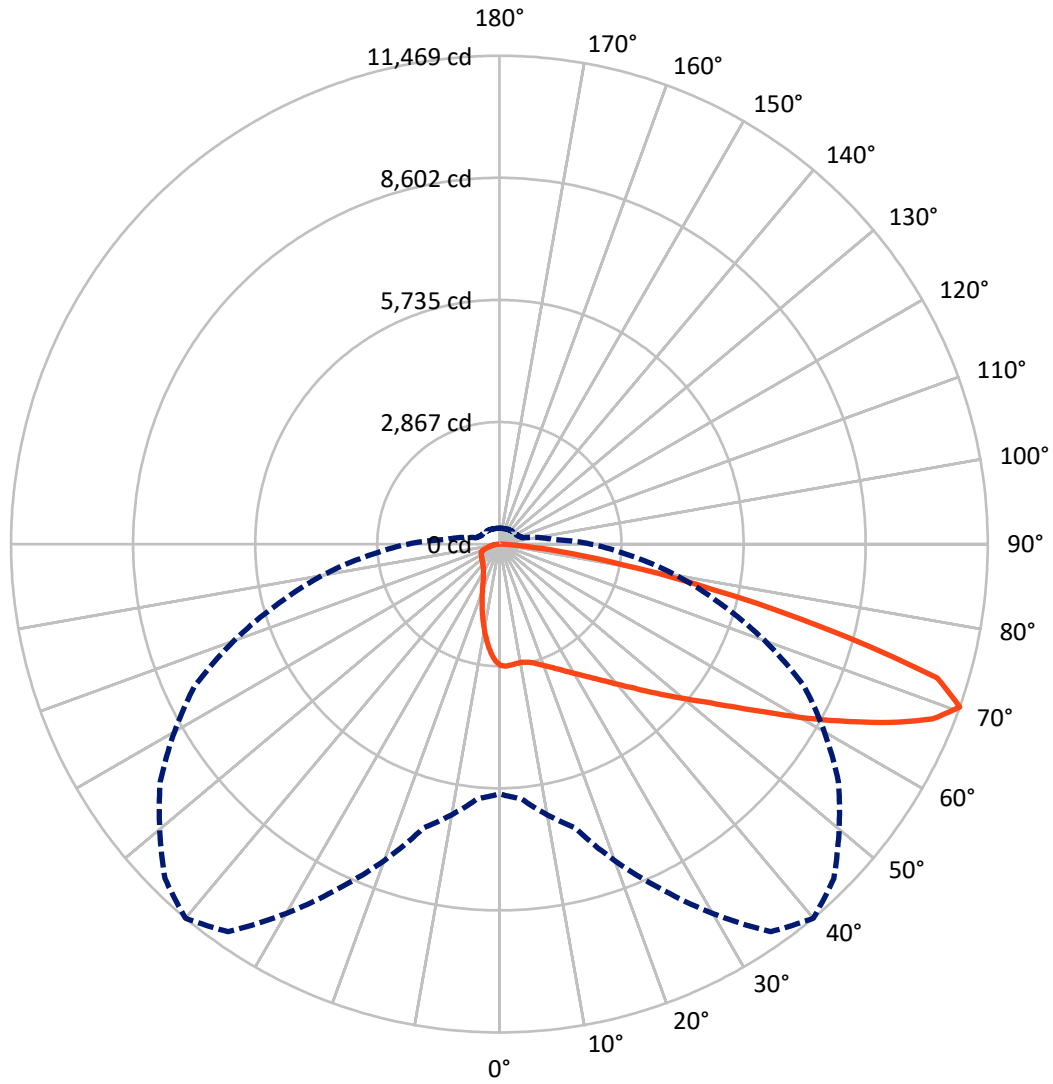
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P636003
CATALOG NUMBER: GWS-SA3E-830-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P636003

CATALOG NUMBER: GWS-SA3E-830-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2584.2	0.0	2584.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	14193.7	0.0	14193.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	16777.9	0.0	16777.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	1.5
10°-20°	656.1	3.9
20°-30°	1030.1	6.1
30°-40°	1548.8	9.2
40°-50°	2390.7	14.2
50°-60°	3550.3	21.2
60°-70°	4475.1	26.7
70°-80°	2587.9	15.4
80°-90°	287.2	1.7
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°	16777.9	100.0
0°-180°	16777.9	100.0

Coefficient of Utilization



REPORT NUMBER: P636003

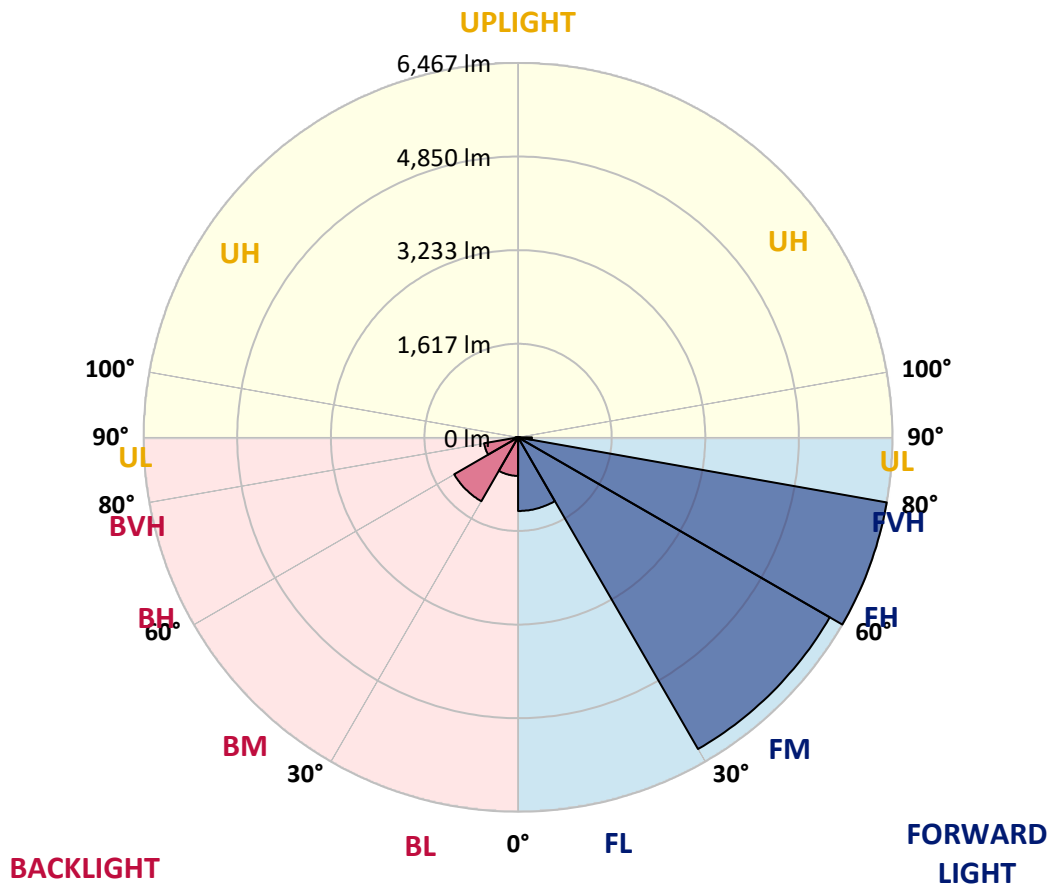
CATALOG NUMBER: GWS-SA3E-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.9	7.6			
FM (30°-60°)	6216.0	37.0			
FH (60°-80°)	6466.6	38.5			G3/7500
FVH (80°-90°)	239.2	1.4			G3/500
BL (0°-30°)	666.0	4.0	B2/1000		
BM (30°-60°)	1273.8	7.6	B2/2500		
BH (60°-80°)	596.4	3.6	B2/1000		G2/1000
BVH (80°-90°)	48.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P636003
 CATALOG NUMBER: GWS-SA3E-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1
2.5°	2866.6	2871.6	2875.4	2880.4	2877.9	2870.4	2876.6	2876.6	2862.9	2847.8	2834.1
5°	2870.4	2876.6	2875.4	2874.1	2864.1	2851.6	2851.6	2844.1	2820.3	2796.5	2773.9
7.5°	2862.9	2861.6	2860.4	2856.6	2845.3	2831.5	2829.0	2814.0	2782.7	2750.1	2717.6
10°	2829.0	2827.8	2831.5	2840.3	2837.8	2825.3	2825.3	2811.5	2775.2	2735.1	2692.5
12.5°	2801.5	2801.5	2816.5	2840.3	2849.1	2844.1	2845.3	2835.3	2794.0	2746.4	2696.3
15°	2805.2	2806.5	2839.1	2877.9	2894.2	2890.4	2891.7	2880.4	2834.1	2786.5	2718.8
17.5°	2830.3	2836.6	2892.9	2946.8	2968.1	2963.0	2954.3	2935.5	2882.9	2829.0	2746.4
20°	2882.9	2892.9	2965.5	3033.2	3058.2	3046.9	3031.9	2994.4	2936.7	2877.9	2776.4
22.5°	2986.8	2993.1	3073.2	3139.6	3159.7	3145.9	3115.8	3062.0	2995.6	2934.2	2812.8
25°	3133.4	3140.9	3217.3	3278.6	3273.6	3257.3	3216.0	3149.6	3070.7	3005.6	2865.4
27.5°	3307.4	3320.0	3395.1	3443.9	3411.4	3387.6	3341.3	3261.1	3172.2	3113.3	2945.5
30°	3497.8	3502.8	3566.7	3615.5	3565.4	3532.9	3476.5	3390.1	3309.9	3266.1	3065.7
32.5°	3681.9	3686.9	3742.0	3769.6	3717.0	3693.2	3644.3	3552.9	3496.5	3472.7	3244.8
35°	3876.0	3874.7	3919.8	3943.6	3889.8	3879.8	3829.7	3759.5	3749.5	3780.8	3506.6
37.5°	4070.1	4058.8	4082.6	4113.9	4083.9	4093.9	4061.3	4037.6	4076.4	4157.8	3854.7
40°	4225.4	4225.4	4250.5	4289.3	4299.3	4343.1	4324.3	4355.6	4480.9	4675.0	4285.5
42.5°	4363.2	4364.4	4417.0	4477.1	4549.8	4617.4	4632.4	4713.8	4973.1	5277.4	4826.5
45°	4507.2	4508.4	4579.8	4667.5	4821.5	4950.5	4980.6	5163.4	5534.1	5904.8	5413.9
47.5°	4673.7	4660.0	4758.9	4905.4	5124.6	5309.9	5387.6	5646.8	6115.2	6571.0	5967.4
50°	4861.6	4832.8	4943.0	5196.0	5466.5	5720.7	5850.9	6147.8	6738.9	7185.9	6488.4
52.5°	5073.2	5057.0	5172.2	5480.3	5893.5	6186.6	6363.2	6752.6	7345.0	7798.3	6901.7
55°	5336.2	5297.4	5464.0	5856.0	6394.5	6767.7	6976.8	7351.3	8007.5	8354.4	7217.3
57.5°	5624.3	5581.7	5804.6	6325.6	7045.7	7455.2	7716.9	8025.0	8631.1	8780.2	7402.6
60°	5934.9	5921.1	6185.3	6876.6	7822.1	8298.0	8487.1	8766.4	9173.4	9026.9	7356.3
62.5°	6219.1	6214.1	6598.6	7474.0	8644.9	9168.4	9318.7	9392.6	9564.1	9010.6	6988.1
65°	6518.4	6561.0	7080.7	8166.5	9587.9	10101.4	10164.0	9976.2	9695.6	8583.6	6234.2
67.5°	6556.0	6638.7	7383.8	8815.2	10482.1	10966.8	10916.7	10197.8	9307.4	7395.1	4886.6
70°	5863.5	6007.5	6900.4	8914.2	11112.0	11469.0	11107.0	9720.7	7898.5	5357.5	3073.2
72.5°	4899.2	5023.1	5812.1	7601.7	10299.3	10753.9	10264.2	8227.9	5581.7	3073.2	1565.4
75°	3813.4	3957.4	4685.0	6042.6	7710.7	7892.3	7646.8	5738.2	3068.2	1267.4	711.3
77.5°	2326.9	2430.8	2996.9	4093.9	5395.1	5123.3	4341.9	3217.3	1346.3	607.4	439.6
80°	1029.4	1093.3	1476.5	2199.1	3117.1	2946.8	2323.1	1373.8	736.4	385.7	306.8
82.5°	552.3	593.6	727.6	870.4	1368.8	1431.4	1160.9	791.5	395.7	220.4	175.3
85°	243.0	266.7	330.6	315.6	449.6	442.1	445.8	543.5	189.1	101.4	114.0
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	13.8	72.6	18.8	30.1	26.3
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: P636003
 CATALOG NUMBER: GWS-SA3E-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1	2849.1
2.5°	2819.0	2796.5	2790.2	2782.7	2768.9	2745.1	2727.6	2707.6	2698.8	2688.8	2690.0
5°	2748.9	2721.3	2695.0	2661.2	2618.6	2571.1	2538.5	2500.9	2480.9	2462.1	2467.1
7.5°	2688.8	2646.2	2592.3	2521.0	2444.6	2359.4	2290.5	2236.7	2200.4	2175.3	2187.8
10°	2651.2	2601.1	2507.2	2390.7	2261.7	2131.5	2032.6	1939.9	1882.3	1837.2	1834.7
12.5°	2643.7	2578.6	2442.1	2273.0	2086.4	1912.3	1767.1	1641.8	1565.4	1509.1	1530.4
15°	2651.2	2568.6	2385.7	2164.0	1928.6	1693.2	1512.8	1368.8	1277.4	1226.0	1222.3
17.5°	2660.0	2558.5	2321.8	2046.3	1763.3	1494.0	1284.9	1132.1	1038.2	986.8	988.1
20°	2667.5	2543.5	2246.7	1917.3	1595.5	1308.7	1092.0	946.8	862.9	825.3	831.6
22.5°	2680.0	2528.5	2166.6	1779.6	1423.9	1129.6	939.3	821.5	771.4	746.4	747.6
25°	2703.8	2519.7	2083.9	1629.3	1254.8	986.8	834.1	755.2	723.9	708.8	707.6
27.5°	2752.6	2527.2	1997.5	1484.0	1102.1	877.9	766.4	715.1	693.8	683.8	682.5
30°	2834.1	2557.3	1922.3	1336.2	970.6	792.7	720.1	688.8	676.3	667.5	666.2
32.5°	2958.0	2613.6	1840.9	1198.5	864.1	730.1	683.8	667.5	658.7	653.7	653.7
35°	3145.9	2716.3	1760.8	1078.3	781.5	681.3	655.0	648.7	641.2	638.7	641.2
37.5°	3416.4	2880.4	1688.2	973.1	722.6	643.7	623.7	626.2	619.9	623.7	627.4
40°	3759.5	3099.5	1626.8	886.7	678.8	616.2	596.1	604.9	601.1	604.9	611.1
42.5°	4194.1	3371.3	1580.5	819.0	647.5	593.6	574.8	583.6	581.1	586.1	592.4
45°	4678.8	3729.5	1559.2	771.4	624.9	577.3	557.3	563.6	561.0	564.8	571.1
47.5°	5143.4	4055.1	1578.0	743.9	606.1	563.6	542.3	544.8	543.5	542.3	546.0
50°	5544.1	4314.3	1631.8	735.1	593.6	549.8	529.7	531.0	527.2	519.7	522.2
52.5°	5871.0	4522.2	1664.4	735.1	587.3	534.8	516.0	517.2	509.7	499.7	500.9
55°	6086.4	4606.1	1638.1	733.9	584.8	522.2	502.2	503.4	495.9	483.4	484.7
57.5°	6147.8	4524.7	1527.9	720.1	582.3	512.2	488.4	490.9	485.9	472.1	472.1
60°	5976.2	4226.7	1326.2	688.8	576.1	505.9	478.4	482.2	479.6	465.9	465.9
62.5°	5526.6	3696.9	1085.8	641.2	558.5	498.4	469.6	477.1	483.4	475.9	474.6
65°	4685.0	2961.8	882.9	588.6	536.0	485.9	457.1	475.9	489.7	499.7	499.7
67.5°	3515.3	2120.2	720.1	533.5	502.2	460.9	440.8	458.4	468.4	474.6	478.4
70°	2142.8	1247.3	567.3	469.6	453.3	423.3	408.3	390.7	377.0	374.5	375.7
72.5°	1048.2	713.8	460.9	399.5	387.0	359.4	325.6	318.1	311.8	308.1	306.8
75°	577.3	497.2	380.7	331.9	309.3	275.5	268.0	255.5	253.0	248.0	249.2
77.5°	408.3	392.0	314.3	269.3	235.4	217.9	221.7	212.9	212.9	209.1	207.9
80°	306.8	308.1	241.7	196.6	174.1	167.8	171.6	171.6	169.1	167.8	166.6
82.5°	194.1	219.2	162.8	126.5	124.0	125.2	124.0	122.7	125.2	121.5	120.2
85°	134.0	157.8	98.9	75.1	75.1	73.9	76.4	75.1	77.6	73.9	73.9
87.5°	30.1	70.1	36.3	22.5	23.8	22.5	23.8	25.0	27.6	28.8	28.8
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)