

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: P641966

Luminaire Tested: GWS-SA6B-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14746 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

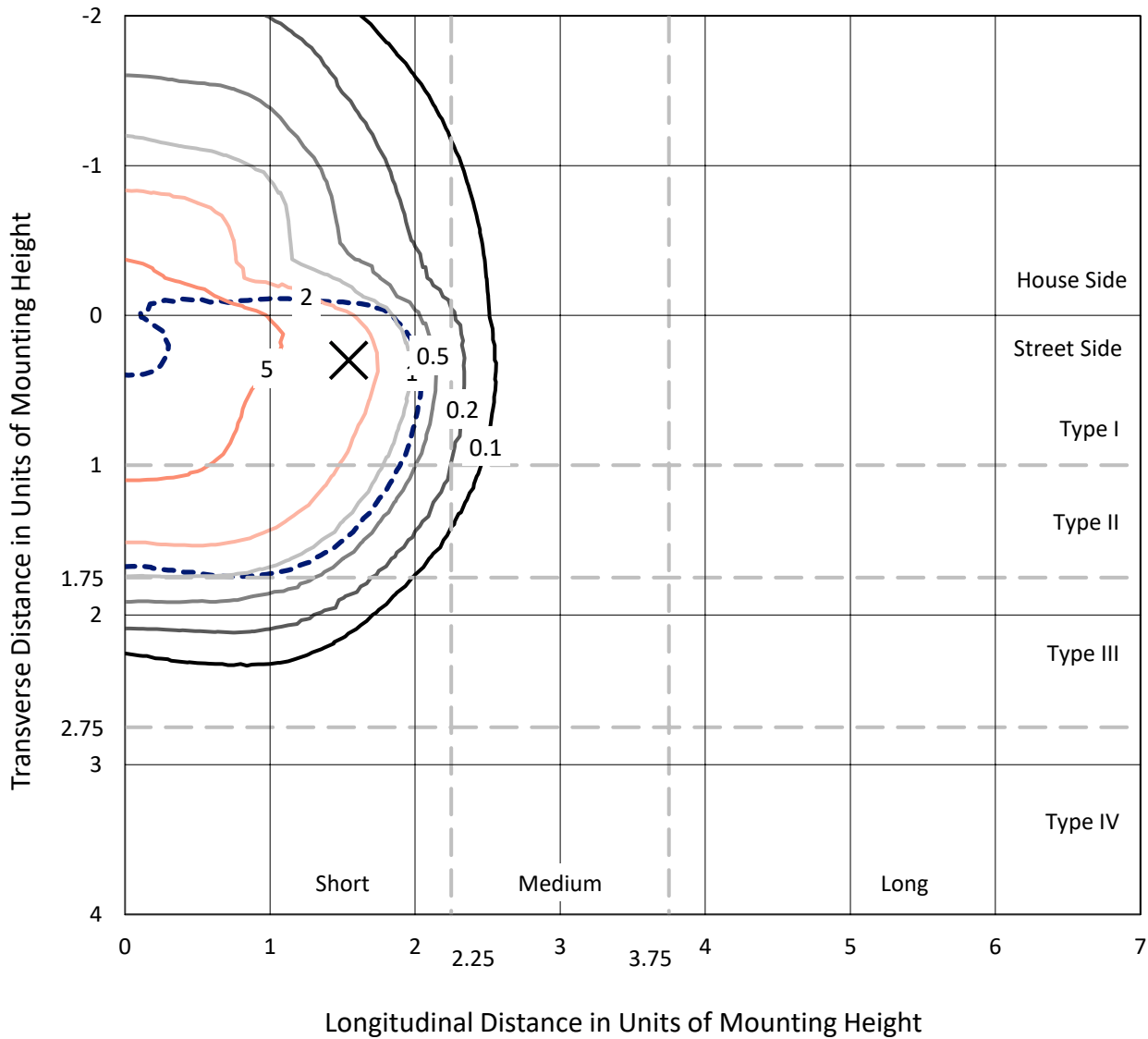
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

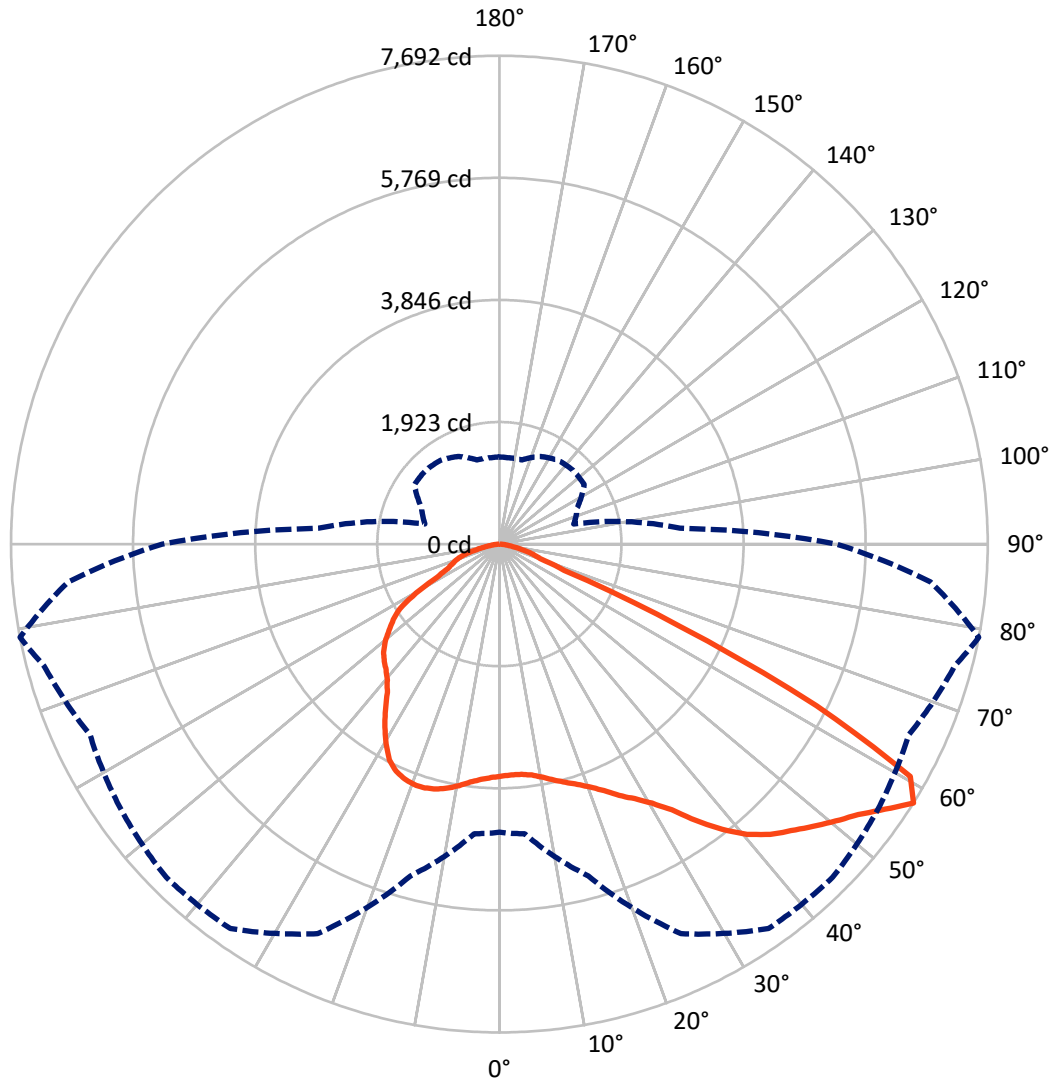
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4383.3	0.0	4383.3
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	10362.7	0.0	10362.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	14746.0	0.0	14746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.4	2.3
10°-20°	940.5	6.4
20°-30°	1594.2	10.8
30°-40°	2440.1	16.5
40°-50°	3253.6	22.1
50°-60°	3757.7	25.5
60°-70°	1952.6	13.2
70°-80°	415.1	2.8
80°-90°	53.8	0.4
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°	14746.0	100.0
0°-180°	14746.0	100.0

Coefficient of Utilization



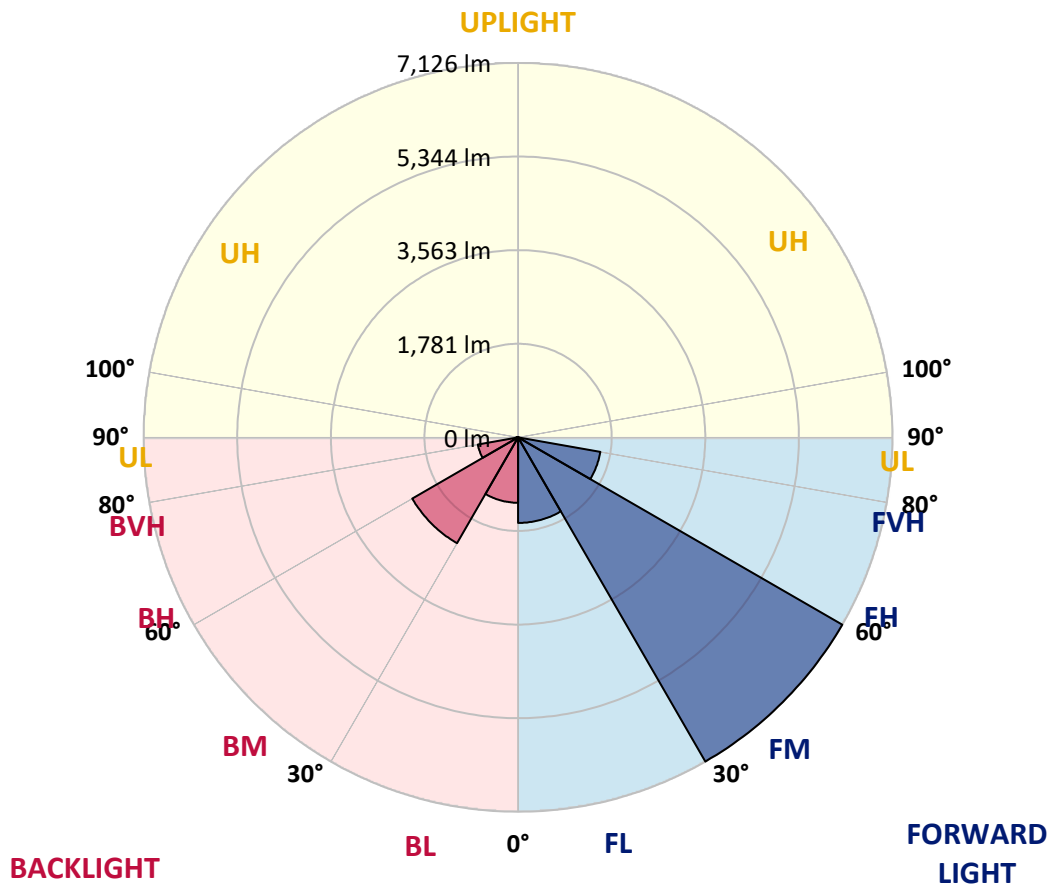
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.3	11.0			
FM (30°-60°)	7125.7	48.3			
FH (60°-80°)	1590.0	10.8			G1/1800
FVH (80°-90°)	18.7	0.1			G1/100
BL (0°-30°)	1244.8	8.4	B3/2500		
BM (30°-60°)	2325.8	15.8	B2/2500		
BH (60°-80°)	777.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	35.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4
2.5°	3488.0	3480.8	3483.2	3492.8	3529.0	3555.5	3583.3	3608.6	3632.7	3639.9	3646.0
5°	3363.8	3350.6	3354.2	3369.9	3412.1	3456.7	3506.1	3566.4	3624.3	3643.5	3668.9
7.5°	3275.8	3273.4	3279.4	3303.5	3348.2	3390.4	3454.3	3539.9	3639.9	3672.5	3717.1
10°	3158.9	3154.0	3178.2	3227.6	3301.1	3368.7	3444.6	3545.9	3685.7	3734.0	3802.7
12.5°	3066.0	3063.6	3088.9	3157.7	3251.7	3359.0	3463.9	3577.2	3747.2	3813.5	3897.9
15°	3120.3	3109.4	3110.6	3158.9	3243.3	3369.9	3512.1	3633.9	3808.7	3893.1	4001.6
17.5°	3278.2	3258.9	3244.5	3252.9	3301.1	3432.6	3585.7	3709.9	3879.9	3978.7	4111.4
20°	3496.5	3485.6	3445.8	3419.3	3430.1	3545.9	3701.4	3817.2	3972.7	4083.6	4225.9
22.5°	3789.4	3762.9	3708.7	3666.5	3633.9	3724.3	3867.8	3967.9	4101.7	4217.4	4365.7
25°	4152.3	4113.8	4028.2	3961.8	3891.9	3984.8	4112.6	4188.5	4278.9	4386.2	4527.3
27.5°	4522.5	4489.9	4394.7	4305.5	4218.7	4276.5	4428.4	4471.8	4462.2	4540.6	4661.1
30°	4916.7	4875.7	4785.3	4688.9	4576.7	4614.1	4750.4	4772.1	4669.6	4734.7	4816.7
32.5°	5332.7	5292.9	5214.5	5102.4	4975.8	4990.3	5027.7	5048.2	4950.5	4987.9	5050.6
35°	5755.9	5718.5	5638.9	5528.0	5435.2	5347.2	5253.1	5335.1	5278.4	5350.8	5346.0
37.5°	6142.9	6105.5	6056.1	5970.5	5811.4	5637.7	5420.7	5522.0	5610.0	5701.6	5686.0
40°	6404.5	6379.2	6391.3	6378.0	6173.1	5829.4	5502.7	5613.6	5853.6	6010.3	6001.8
42.5°	6630.0	6604.7	6674.6	6725.3	6484.1	6006.7	5542.5	5648.6	6009.1	6253.8	6241.8
45°	6730.1	6722.8	6838.6	6998.9	6768.7	6194.8	5645.0	5720.9	6127.2	6440.7	6394.9
47.5°	6610.7	6636.0	6863.9	7135.2	7005.0	6417.8	5854.8	5874.0	6281.6	6643.3	6514.3
50°	6373.2	6428.7	6736.1	7138.8	7177.4	6669.8	6145.3	6097.1	6488.9	6859.1	6577.0
52.5°	6027.2	6085.0	6586.6	7111.1	7276.2	6961.6	6532.3	6463.6	6750.6	7074.9	6587.8
55°	5232.6	5311.0	6244.2	7048.4	7372.7	7226.8	6968.8	6828.9	7088.2	7371.5	6695.1
57.5°	4539.4	4580.4	5409.9	6769.9	7392.0	7422.1	7279.9	7113.5	7423.3	7692.2	6815.7
60°	3331.3	3340.9	4087.2	5601.6	6800.0	7308.8	7254.5	7007.4	7264.2	7435.4	6263.5
62.5°	1882.1	1883.3	2478.9	3738.8	5079.5	5957.2	5991.0	5772.8	5557.0	5607.6	4359.7
65°	706.5	772.8	1132.1	1837.4	2928.6	3517.0	3656.8	3707.4	3348.2	3125.1	2337.8
67.5°	472.6	488.3	660.7	945.2	1303.3	1504.7	1683.1	1687.9	1234.6	1100.8	921.1
70°	360.5	376.2	519.6	676.4	660.7	610.1	659.5	641.4	663.1	681.2	700.5
72.5°	268.9	284.5	402.7	477.4	396.7	390.6	442.5	491.9	537.7	557.0	587.2
75°	178.4	190.5	271.3	255.6	219.4	259.2	323.1	372.6	399.1	422.0	444.9
77.5°	113.3	121.8	144.7	117.0	121.8	151.9	188.1	232.7	258.0	280.9	293.0
80°	51.8	50.6	49.4	55.5	68.7	89.2	113.3	139.9	159.1	168.8	176.0
82.5°	20.5	22.9	25.3	30.1	37.4	48.2	63.9	82.0	97.7	100.1	106.1
85°	8.4	9.6	10.9	13.3	16.9	21.7	26.5	37.4	47.0	50.6	54.3
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	3.6	6.0	10.9	12.1	13.3
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°	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4	3654.4
2.5°	3678.5	3662.8	3689.4	3707.4	3724.3	3706.2	3700.2	3684.5	3682.1	3682.1	3690.6
5°	3712.3	3701.4	3729.2	3740.0	3738.8	3699.0	3674.9	3643.5	3627.9	3627.9	3630.3
7.5°	3772.6	3766.5	3782.2	3765.3	3726.7	3646.0	3566.4	3500.1	3455.5	3432.6	3439.8
10°	3872.6	3865.4	3852.1	3789.4	3678.5	3510.9	3348.2	3227.6	3155.3	3114.3	3116.7
12.5°	3970.3	3958.2	3911.2	3772.6	3544.7	3278.2	3064.8	2929.8	2850.2	2802.0	2791.1
15°	4077.6	4046.2	3945.0	3685.7	3326.5	2993.7	2770.6	2624.8	2539.2	2510.2	2509.0
17.5°	4180.1	4124.6	3941.4	3531.4	3064.8	2695.9	2471.6	2381.2	2366.7	2380.0	2383.6
20°	4283.8	4194.5	3901.6	3318.0	2753.8	2399.3	2283.5	2320.9	2375.2	2411.3	2419.8
22.5°	4391.1	4252.4	3811.1	3043.1	2425.8	2199.2	2247.4	2329.4	2396.9	2445.1	2449.9
25°	4511.6	4306.7	3676.1	2706.7	2163.0	2143.7	2238.9	2325.7	2398.1	2453.5	2463.2
27.5°	4580.4	4307.9	3486.8	2360.7	2042.4	2122.0	2218.4	2300.4	2372.8	2433.1	2443.9
30°	4647.9	4275.3	3186.6	2079.8	2007.4	2096.7	2183.5	2259.4	2328.2	2387.2	2400.5
32.5°	4743.1	4245.2	2840.6	1918.2	1987.0	2072.6	2143.7	2211.2	2264.3	2290.8	2298.0
35°	4861.3	4206.6	2472.8	1848.3	1973.7	2053.3	2116.0	2152.1	2083.4	2068.9	2084.6
37.5°	5026.5	4170.4	2106.3	1818.2	1965.2	2046.0	2101.5	2008.7	1924.3	1890.5	1902.6
40°	5204.9	4149.9	1857.9	1794.0	1968.9	2053.3	2041.2	1903.8	1782.0	1710.9	1708.4
42.5°	5356.8	4118.6	1698.8	1778.4	1978.5	2081.0	1959.2	1810.9	1630.1	1587.9	1589.1
45°	5459.3	4039.0	1614.4	1761.5	1987.0	2087.0	1920.6	1683.1	1554.1	1527.6	1526.4
47.5°	5501.5	3894.3	1560.1	1735.0	1985.7	2037.6	1842.3	1630.1	1501.1	1493.8	1498.7
50°	5473.8	3656.8	1504.7	1683.1	1956.8	1985.7	1751.8	1583.1	1464.9	1504.7	1533.6
52.5°	5371.3	3349.4	1438.4	1612.0	1905.0	1926.7	1706.0	1554.1	1438.4	1491.4	1514.3
55°	5344.8	3099.8	1354.0	1519.2	1827.8	1821.8	1657.8	1539.6	1420.3	1399.8	1403.4
57.5°	5309.8	2856.2	1214.1	1352.8	1632.5	1642.1	1612.0	1522.8	1373.3	1367.2	1373.3
60°	4612.9	2189.5	1082.7	1167.1	1340.7	1392.6	1560.1	1491.4	1297.3	1272.0	1270.8
62.5°	3013.0	1326.2	963.3	1017.6	1092.3	1152.6	1422.7	1401.0	1214.1	1198.4	1209.3
65°	1620.4	945.2	876.5	909.1	950.1	995.9	1179.1	1247.9	1097.2	1041.7	1042.9
67.5°	828.3	804.2	811.4	834.3	865.7	888.6	951.3	1011.6	935.6	888.6	887.4
70°	708.9	728.2	739.1	752.3	772.8	769.2	775.2	786.1	780.1	757.2	756.0
72.5°	604.0	634.2	636.6	639.0	646.2	629.4	618.5	600.4	601.6	605.2	606.5
75°	459.4	488.3	495.5	491.9	499.1	477.4	463.0	444.9	423.2	419.6	422.0
77.5°	299.0	321.9	332.8	330.4	334.0	317.1	309.9	290.6	265.2	255.6	255.6
80°	180.9	194.1	202.6	205.0	208.6	196.5	184.5	167.6	156.7	145.9	145.9
82.5°	109.7	118.2	124.2	124.2	127.8	114.5	104.9	92.8	88.0	78.4	78.4
85°	55.5	61.5	63.9	62.7	60.3	49.4	45.8	39.8	37.4	32.6	32.6
87.5°	13.3	16.9	16.9	12.1	12.1	6.0	3.6	1.2	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)