

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: P643438

Luminaire Tested: GWS-SA6E-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-830-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

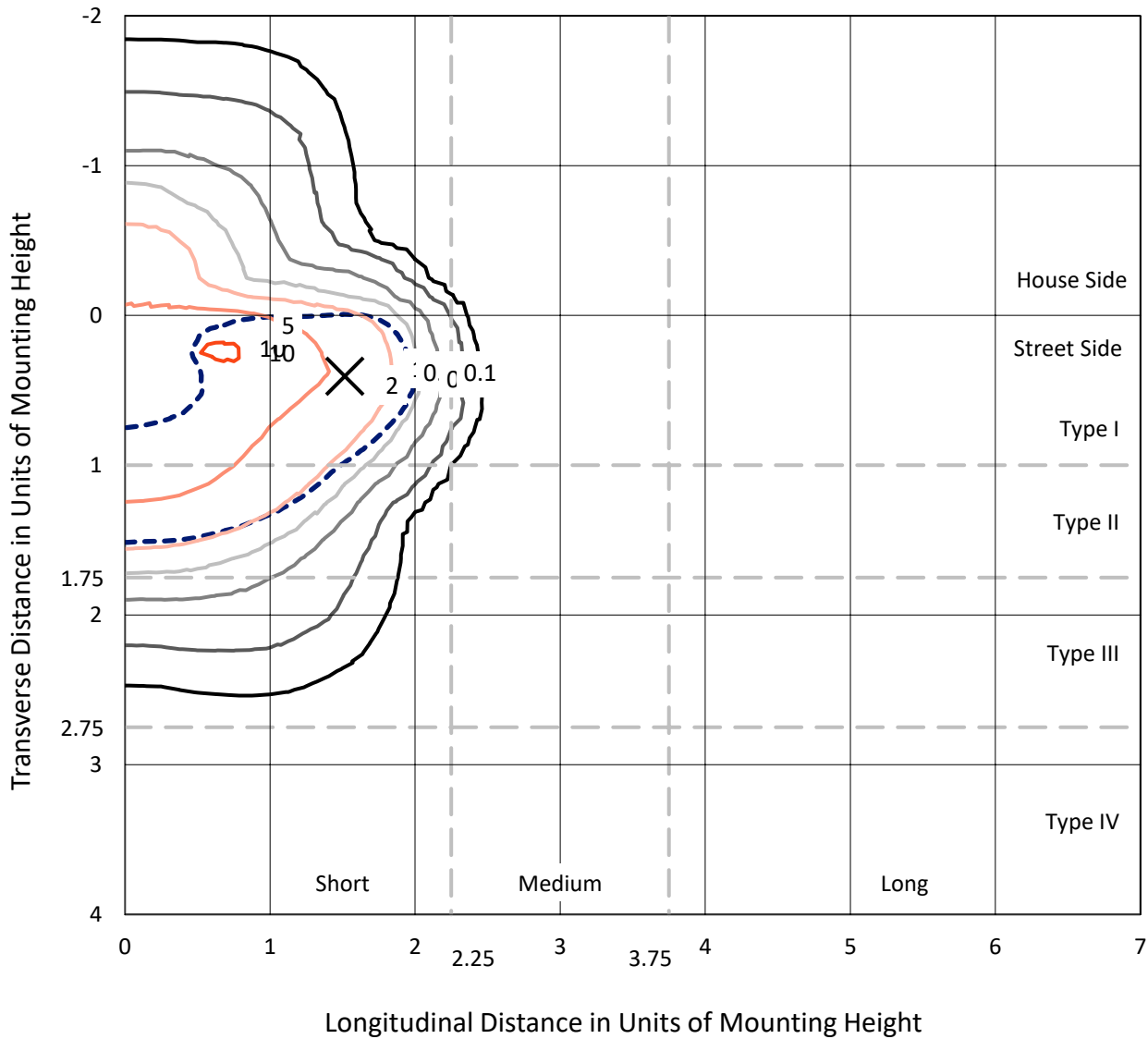
Lumens per Lamp: N/A  
Luminaire Lumens: 21122.9 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

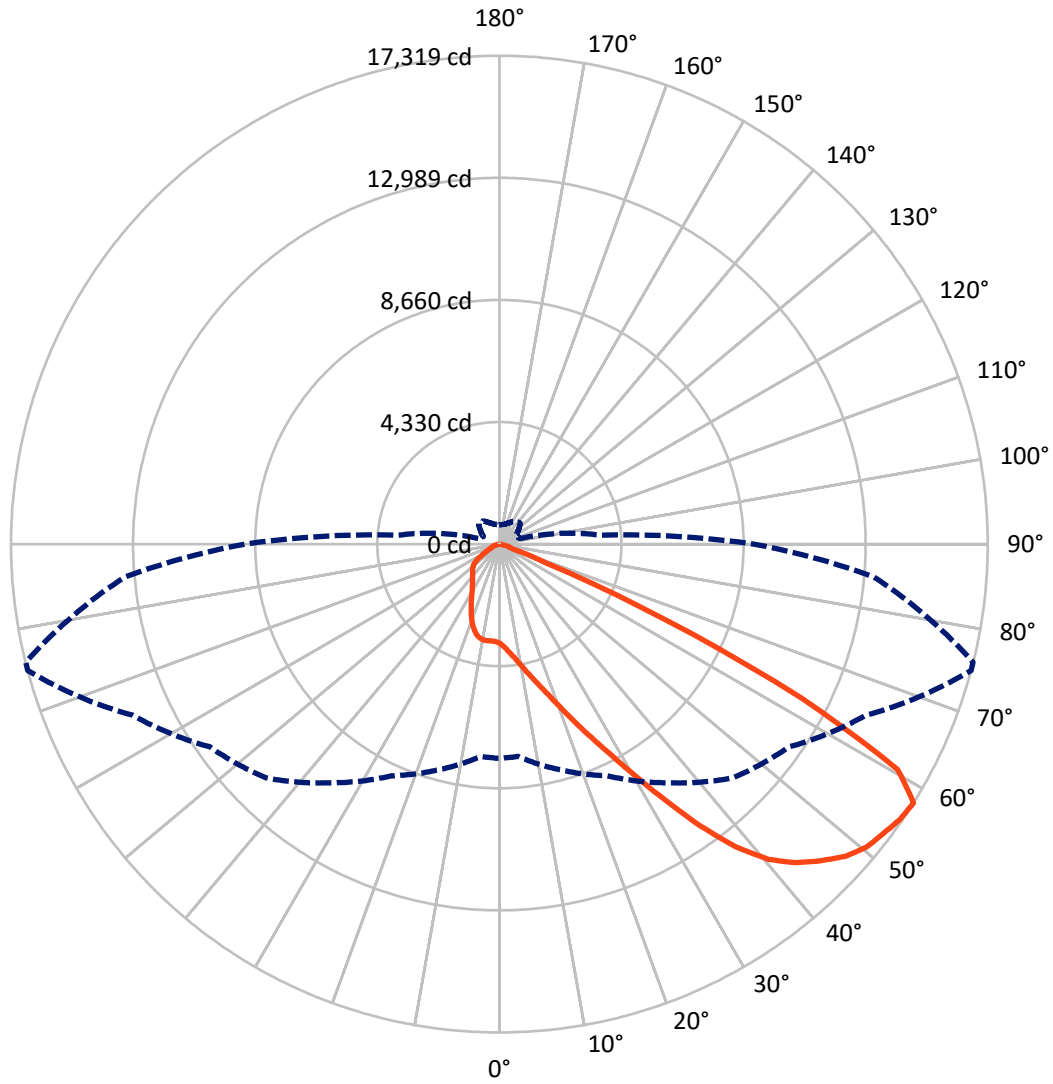
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3450.4	0.0	3450.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	17672.5	0.0	17672.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	21122.9	0.0	21122.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.5	1.7
10°-20°	1164.6	5.5
20°-30°	2132.6	10.1
30°-40°	3538.1	16.8
40°-50°	5403.6	25.6
50°-60°	6071.8	28.7
60°-70°	2239.6	10.6
70°-80°	214.1	1.0
80°-90°	0.2	0.0
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°	21122.9	100.0
0°-180°	21122.9	100.0

**Coefficient of Utilization**



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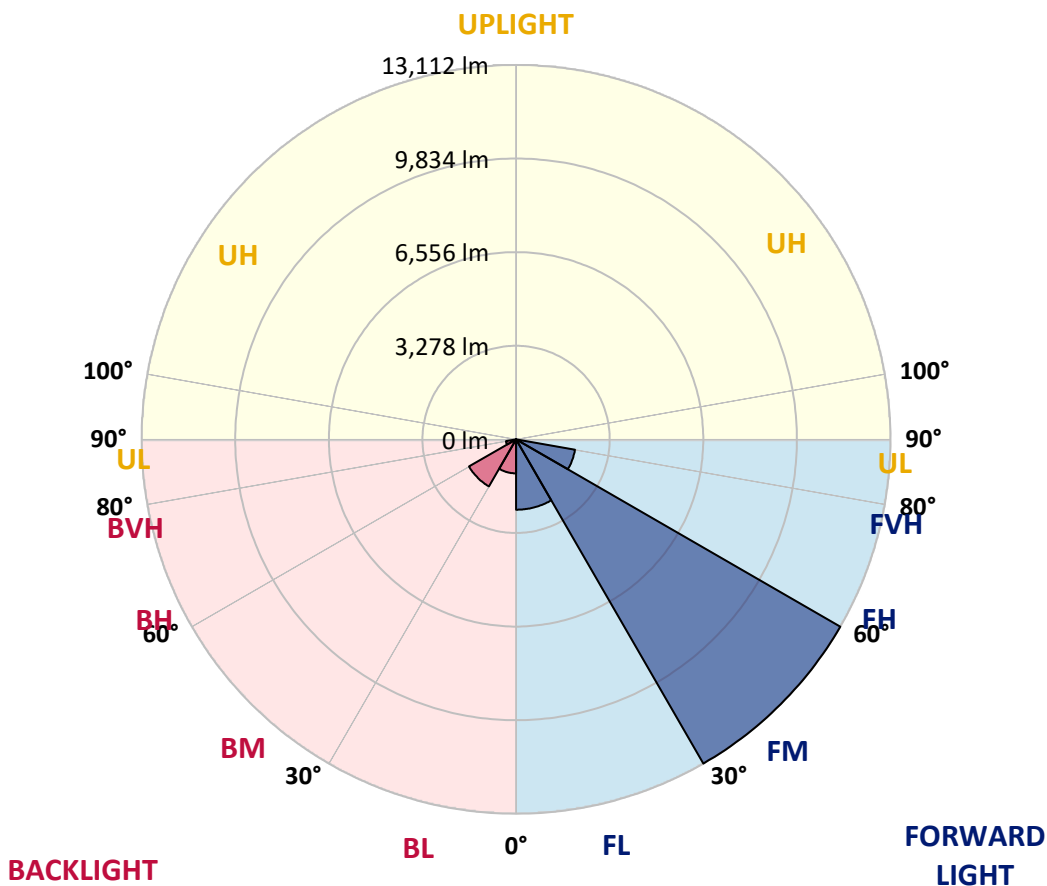
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2465.0	11.7			
FM (30°-60°)	13112.1	62.1			
FH (60°-80°)	2095.3	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1190.6	5.6	B3/2500		
BM (30°-60°)	1901.4	9.0	B2/2500		
BH (60°-80°)	358.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
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°	76°	85°
0°	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0
2.5°	3936.0	3976.8	3964.0	3938.5	3923.2	3869.7	3836.6	3739.7	3670.9	3663.2	3599.5
5°	4433.1	4425.4	4415.2	4384.6	4359.1	4275.0	4175.6	4012.5	3867.1	3849.3	3714.2
7.5°	4705.8	4710.9	4716.0	4710.9	4693.1	4629.4	4519.7	4328.6	4106.8	4091.5	3877.3
10°	4818.0	4828.2	4853.7	4902.1	4945.5	4940.4	4876.6	4680.3	4407.6	4382.1	4094.0
12.5°	4871.5	4884.3	4925.1	5016.8	5134.1	5225.9	5236.1	5060.2	4759.4	4718.6	4351.5
15°	4945.5	4958.2	5009.2	5129.0	5299.8	5480.8	5598.1	5485.9	5149.4	5106.1	4634.5
17.5°	4978.6	4996.4	5070.4	5228.4	5450.2	5728.1	5993.2	5983.0	5610.8	5577.7	4963.3
20°	5042.3	5055.1	5121.4	5292.2	5559.8	5960.0	6406.2	6566.8	6174.2	6125.7	5361.0
22.5°	5243.7	5248.8	5279.4	5386.5	5636.3	6128.3	6826.8	7247.4	6839.5	6775.8	5807.1
25°	5572.6	5570.0	5582.8	5600.6	5784.2	6299.1	7232.1	8014.7	7601.7	7532.9	6311.8
27.5°	5990.6	5990.6	6021.2	5970.2	6044.2	6510.7	7632.3	8896.7	8488.9	8392.0	6865.0
30°	6482.6	6480.1	6551.5	6469.9	6492.8	6844.6	8063.1	9857.8	9559.5	9439.7	7502.3
32.5°	7150.5	7135.2	7216.8	7104.6	7028.2	7349.4	8588.3	10862.2	10841.8	10658.2	8302.8
35°	7994.3	7968.8	7994.3	7884.7	7747.0	8055.5	9276.6	11864.0	12264.2	12070.5	9256.2
37.5°	8833.0	8914.6	8942.6	8754.0	8641.8	8950.3	10105.1	12761.3	13623.0	13421.6	10247.8
40°	9822.1	9796.6	9893.5	9681.9	9610.5	9952.1	10915.7	13429.2	14698.7	14507.5	11129.8
42.5°	10551.2	10597.1	10716.9	10599.6	10543.5	10864.7	11596.3	13819.3	15445.7	15257.0	11759.5
45°	11425.6	11458.7	11504.6	11407.7	11349.1	11665.2	12088.3	13990.1	16014.1	15810.2	12182.7
47.5°	12371.3	12396.8	12396.8	12198.0	12009.3	12139.3	12417.2	14086.9	16536.7	16340.4	12496.2
50°	13049.4	13062.1	13174.3	13034.1	12623.7	12422.3	12567.6	14181.2	16883.4	16699.9	12598.2
52.5°	12447.8	12432.5	12802.1	13092.7	13202.3	12802.1	12827.6	14318.9	17051.7	16893.6	12679.8
55°	10482.3	10456.9	10976.9	11683.0	12649.2	13161.6	13141.2	14400.5	17237.7	17140.9	12975.5
57.5°	7599.2	7555.9	8279.8	9065.0	10331.9	11721.3	12537.0	14354.6	17319.3	17311.7	13319.6
60°	4568.2	4532.5	5215.7	6041.6	7020.5	8417.5	9771.1	12858.2	16228.3	16243.6	12424.8
62.5°	2811.8	2844.9	3461.8	3882.4	4247.0	4667.6	5450.2	8649.5	12022.1	12121.5	8731.0
65°	1891.5	1917.0	2488.0	3018.3	3018.3	2467.6	2118.4	4134.8	6413.8	6245.6	4129.7
67.5°	1269.5	1297.5	1748.8	2368.2	2457.4	1720.7	859.1	1233.8	1787.0	1733.5	1022.2
70°	746.9	777.5	1165.0	1623.8	1789.5	1198.1	573.6	522.6	507.3	492.0	397.7
72.5°	333.9	346.7	594.0	825.9	754.6	504.7	405.3	418.1	395.1	387.5	323.7
75°	102.0	107.1	153.0	178.4	181.0	181.0	244.7	328.8	311.0	313.6	249.8
77.5°	25.5	25.5	40.8	38.2	20.4	17.8	45.9	73.9	76.5	68.8	51.0
80°	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0	3523.0
2.5°	3571.4	3505.2	3461.8	3400.6	3357.3	3311.4	3270.6	3237.5	3219.6	3214.6	3217.1
5°	3653.0	3548.5	3446.5	3329.3	3247.7	3171.2	3110.0	3061.6	3038.7	3031.0	3031.0
7.5°	3777.9	3632.6	3451.6	3268.1	3130.4	3010.6	2939.2	2885.7	2865.3	2860.2	2844.9
10°	3941.1	3742.2	3444.0	3158.5	2964.7	2839.8	2788.8	2773.5	2781.2	2783.7	2781.2
12.5°	4137.4	3857.0	3395.5	2997.9	2788.8	2712.4	2717.5	2758.2	2804.1	2827.1	2832.2
15°	4346.4	3961.5	3285.9	2806.7	2638.4	2635.9	2709.8	2804.1	2893.4	2931.6	2941.8
17.5°	4580.9	4045.6	3117.7	2602.7	2508.4	2582.3	2714.9	2860.2	2980.0	3043.8	3056.5
20°	4838.4	4114.4	2903.5	2411.6	2393.7	2526.3	2709.8	2888.3	3036.1	3107.5	3120.2
22.5°	5106.1	4162.9	2656.3	2235.7	2289.2	2462.5	2661.4	2834.7	2974.9	3056.5	3066.7
25°	5412.0	4168.0	2403.9	2087.8	2192.3	2375.9	2544.1	2686.9	2804.1	2875.5	2883.2
27.5°	5679.6	4106.8	2179.6	1968.0	2103.1	2268.8	2381.0	2460.0	2541.6	2582.3	2584.9
30°	5988.1	3999.7	1968.0	1871.1	2011.3	2136.2	2192.3	2210.2	2217.8	2225.5	2215.3
32.5°	6355.2	3869.7	1809.9	1776.8	1906.8	1990.9	2006.2	1970.5	1927.2	1866.0	1850.7
35°	6806.4	3752.4	1679.9	1685.0	1792.1	1843.1	1830.3	1753.9	1669.7	1595.8	1583.1
37.5°	7295.8	3653.0	1580.5	1595.8	1667.2	1702.9	1664.6	1580.5	1542.3	1478.5	1481.1
40°	7729.2	3571.4	1491.3	1506.6	1539.7	1572.9	1511.7	1455.6	1527.0	1521.9	1527.0
42.5°	8037.7	3502.6	1414.8	1407.2	1430.1	1453.0	1407.2	1379.1	1498.9	1465.8	1483.6
45°	8218.6	3438.9	1351.1	1305.2	1340.9	1381.7	1351.1	1315.4	1356.2	1203.2	1190.5
47.5°	8341.0	3403.2	1295.0	1205.8	1269.5	1340.9	1277.2	1190.5	1131.8	999.3	989.1
50°	8353.8	3385.3	1228.7	1103.8	1185.4	1261.9	1187.9	1068.1	984.0	925.4	917.7
52.5°	8420.0	3421.0	1136.9	973.8	1063.0	1185.4	1134.4	1014.6	899.9	848.9	838.7
55°	8715.7	3571.4	984.0	795.4	925.4	1126.7	1091.1	905.0	795.4	764.8	757.1
57.5°	9021.6	3602.0	775.0	629.7	805.5	1042.6	996.7	833.6	726.5	690.8	683.2
60°	8249.2	2967.3	581.2	520.0	711.2	963.6	922.8	790.3	665.3	622.0	614.4
62.5°	5419.6	1603.5	461.4	441.0	599.1	815.7	841.2	713.8	594.0	548.1	545.5
65°	2498.2	744.4	354.3	349.2	469.1	650.0	724.0	624.6	502.2	461.4	461.4
67.5°	680.6	369.6	277.9	257.5	318.7	435.9	527.7	466.5	356.9	308.5	305.9
70°	339.0	298.3	249.8	221.8	229.4	270.2	311.0	260.0	181.0	147.9	145.3
72.5°	277.9	244.7	211.6	188.6	173.3	165.7	160.6	130.0	84.1	63.7	61.2
75°	206.5	175.9	150.4	122.4	104.5	96.9	86.7	63.7	35.7	20.4	17.8
77.5°	45.9	43.3	40.8	30.6	28.0	22.9	17.8	12.7	5.1	0.0	0.0
80°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)