

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: P639808

Luminaire Tested: GWS-SA5C-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639808  
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-SA5C-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14468.7 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

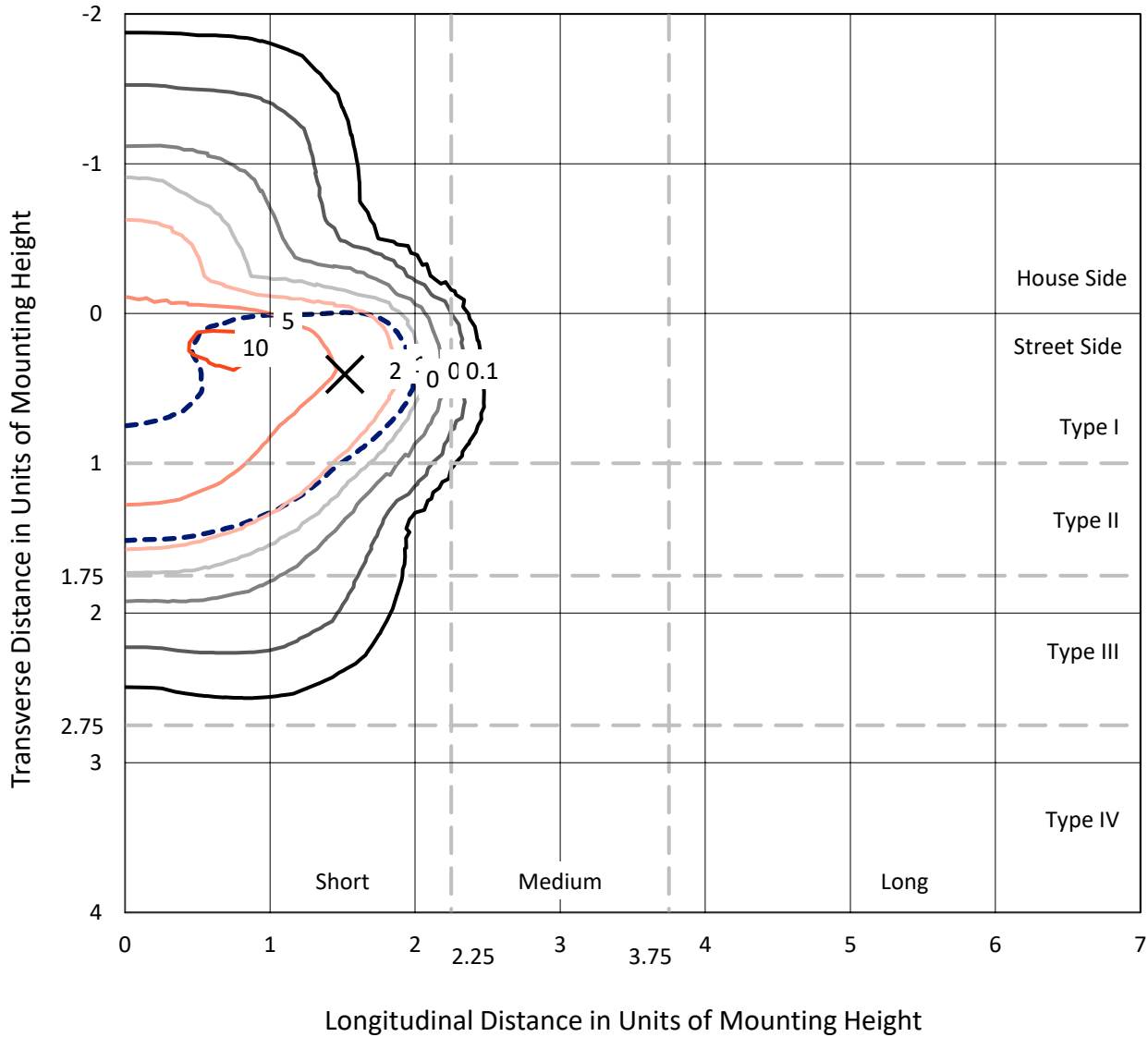
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

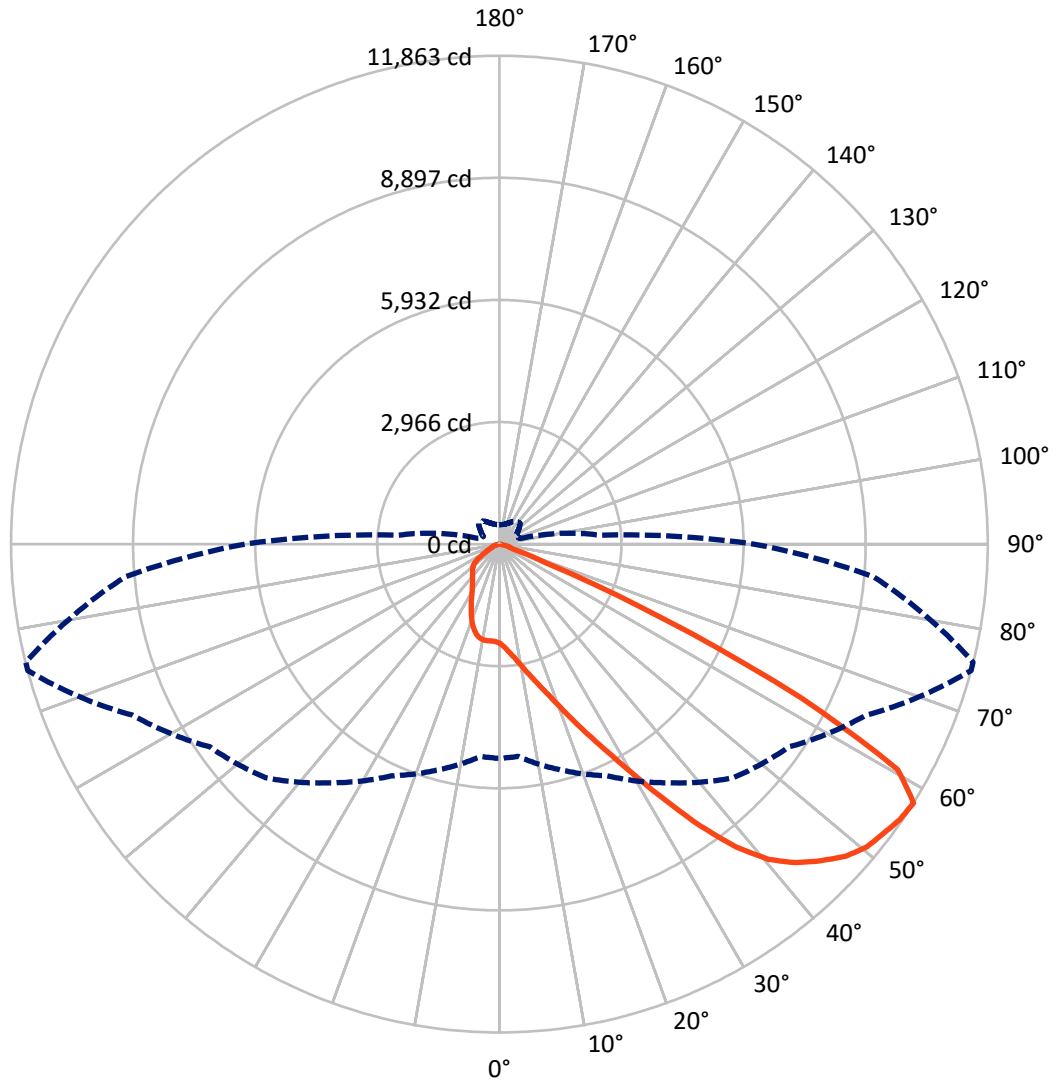
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	2363.4	0.0	2363.4
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	12105.3	0.0	12105.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	14468.7	0.0	14468.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.6	1.7
10°-20°	797.7	5.5
20°-30°	1460.8	10.1
30°-40°	2423.5	16.8
40°-50°	3701.3	25.6
50°-60°	4159.1	28.7
60°-70°	1534.1	10.6
70°-80°	146.6	1.0
80°-90°	0.1	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°	14468.7	100.0
0°-180°	14468.7	100.0

**Coefficient of Utilization**



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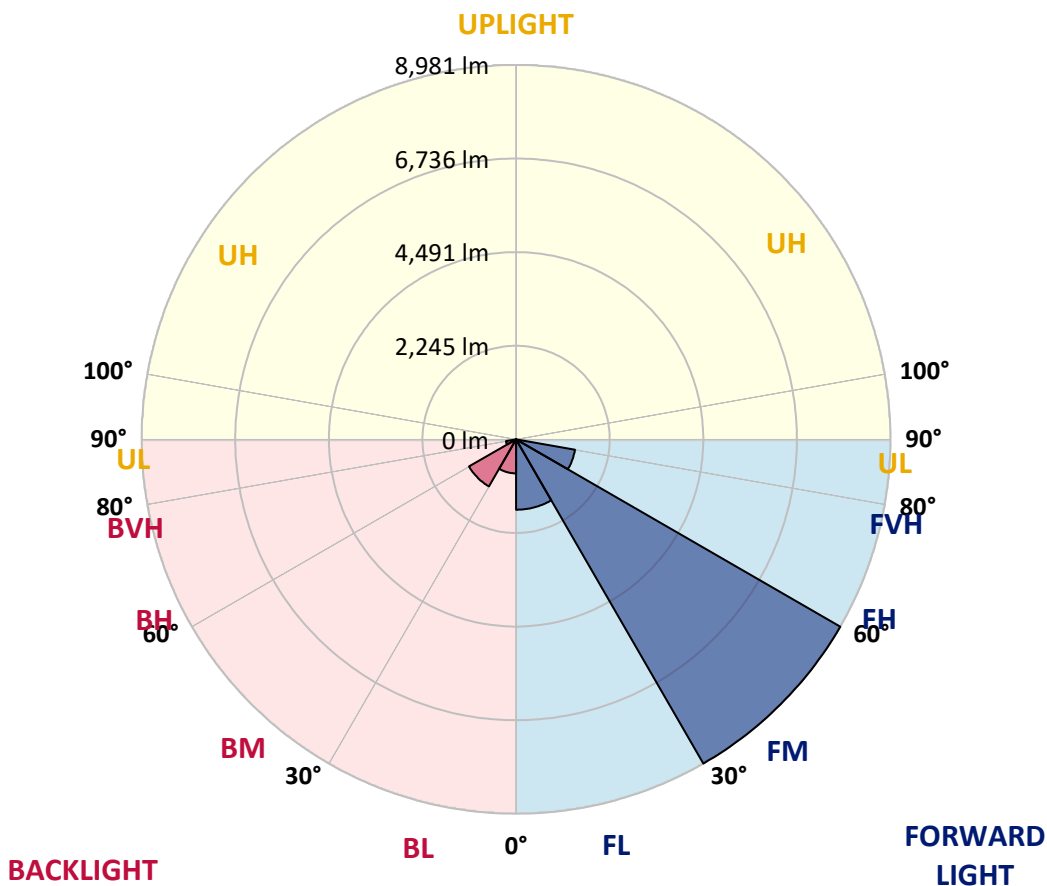
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.5	11.7			
FM (30°-60°)	8981.5	62.1			
FH (60°-80°)	1435.2	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	815.5	5.6	B2/1000		
BM (30°-60°)	1302.4	9.0	B2/2500		
BH (60°-80°)	245.4	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2
2.5°	2696.1	2724.0	2715.3	2697.8	2687.3	2650.7	2628.0	2561.6	2514.5	2509.2	2465.6
5°	3036.6	3031.3	3024.3	3003.4	2985.9	2928.3	2860.2	2748.4	2648.9	2636.7	2544.1
7.5°	3223.4	3226.9	3230.4	3226.9	3214.7	3171.0	3095.9	2965.0	2813.0	2802.6	2655.9
10°	3300.2	3307.2	3324.7	3357.8	3387.5	3384.0	3340.4	3205.9	3019.1	3001.6	2804.3
12.5°	3336.9	3345.6	3373.6	3436.4	3516.7	3579.6	3586.6	3466.1	3260.1	3232.1	2980.7
15°	3387.5	3396.3	3431.2	3513.3	3630.2	3754.2	3834.5	3757.7	3527.2	3497.5	3174.5
17.5°	3410.2	3422.5	3473.1	3581.4	3733.3	3923.6	4105.2	4098.2	3843.3	3820.6	3399.8
20°	3453.9	3462.6	3508.0	3625.0	3808.4	4082.5	4388.1	4498.1	4229.2	4196.0	3672.2
22.5°	3591.8	3595.3	3616.3	3689.6	3860.7	4197.7	4676.2	4964.3	4684.9	4641.3	3977.7
25°	3817.1	3815.3	3824.1	3836.3	3962.0	4314.7	4953.8	5489.9	5207.0	5159.9	4323.5
27.5°	4103.4	4103.4	4124.4	4089.5	4140.1	4459.7	5228.0	6094.1	5814.7	5748.3	4702.4
30°	4440.5	4438.7	4487.6	4431.7	4447.4	4688.4	5523.1	6752.4	6548.1	6466.0	5138.9
32.5°	4897.9	4887.5	4943.3	4866.5	4814.1	5034.1	5882.8	7440.3	7426.4	7300.6	5687.2
35°	5475.9	5458.5	5475.9	5400.8	5306.5	5517.8	6354.2	8126.6	8400.7	8268.0	6340.3
37.5°	6050.4	6106.3	6125.5	5996.3	5919.4	6130.7	6921.7	8741.2	9331.4	9193.5	7019.5
40°	6727.9	6710.5	6776.8	6631.9	6583.0	6817.0	7477.0	9198.7	10068.3	9937.3	7623.7
42.5°	7227.3	7258.7	7340.8	7260.5	7222.1	7442.1	7943.2	9465.9	10579.9	10450.7	8055.0
45°	7826.2	7848.9	7880.4	7814.0	7773.9	7990.4	8280.2	9582.9	10969.3	10829.6	8344.8
47.5°	8474.1	8491.5	8491.5	8355.3	8226.1	8315.2	8505.5	9649.2	11327.3	11192.8	8559.6
50°	8938.5	8947.3	9024.1	8928.1	8646.9	8509.0	8608.5	9713.8	11564.7	11439.0	8629.5
52.5°	8526.4	8516.0	8769.2	8968.2	9043.3	8769.2	8786.6	9808.1	11680.0	11571.7	8685.3
55°	7180.2	7162.7	7518.9	8002.6	8664.4	9015.4	9001.4	9864.0	11807.5	11741.1	8887.9
57.5°	5205.3	5175.6	5671.5	6209.3	7077.1	8028.8	8587.6	9832.6	11863.3	11858.1	9123.6
60°	3129.1	3104.7	3572.6	4138.4	4808.9	5765.8	6693.0	8807.6	11116.0	11126.5	8510.7
62.5°	1926.0	1948.7	2371.3	2659.4	2909.1	3197.2	3733.3	5924.7	8234.8	8302.9	5980.6
65°	1295.6	1313.1	1704.2	2067.4	2067.4	1690.3	1451.0	2832.3	4393.3	4278.1	2828.8
67.5°	869.6	888.8	1197.9	1622.2	1683.3	1178.7	588.5	845.1	1224.1	1187.4	700.2
70°	511.6	532.6	798.0	1112.3	1225.8	820.7	392.9	358.0	347.5	337.0	272.4
72.5°	228.7	237.5	406.9	565.8	516.9	345.7	277.6	286.4	270.7	265.4	221.8
75°	69.8	73.3	104.8	122.2	124.0	124.0	167.6	225.3	213.0	214.8	171.1
77.5°	17.5	17.5	27.9	26.2	14.0	12.2	31.4	50.6	52.4	47.1	34.9
80°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
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°	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2	2413.2
2.5°	2446.4	2401.0	2371.3	2329.4	2299.7	2268.2	2240.3	2217.6	2205.4	2201.9	2203.6
5°	2502.2	2430.6	2360.8	2280.5	2224.6	2172.2	2130.3	2097.1	2081.4	2076.2	2076.2
7.5°	2587.8	2488.3	2364.3	2238.6	2144.3	2062.2	2013.3	1976.6	1962.7	1959.2	1948.7
10°	2699.5	2563.3	2359.0	2163.5	2030.8	1945.2	1910.3	1899.8	1905.0	1906.8	1905.0
12.5°	2834.0	2641.9	2325.9	2053.5	1910.3	1857.9	1861.4	1889.3	1920.8	1936.5	1940.0
15°	2977.2	2713.5	2250.8	1922.5	1807.3	1805.5	1856.2	1920.8	1981.9	2008.1	2015.1
17.5°	3137.8	2771.1	2135.5	1782.8	1718.2	1768.8	1859.6	1959.2	2041.2	2084.9	2093.6
20°	3314.2	2818.3	1988.9	1651.9	1639.6	1730.4	1856.2	1978.4	2079.7	2128.6	2137.3
22.5°	3497.5	2851.5	1819.5	1531.4	1568.0	1686.8	1823.0	1941.7	2037.8	2093.6	2100.6
25°	3707.1	2855.0	1646.6	1430.1	1501.7	1627.4	1742.7	1840.4	1920.8	1969.7	1974.9
27.5°	3890.4	2813.0	1493.0	1348.0	1440.6	1554.1	1630.9	1685.0	1740.9	1768.8	1770.6
30°	4101.7	2739.7	1348.0	1281.7	1377.7	1463.3	1501.7	1513.9	1519.1	1524.4	1517.4
32.5°	4353.1	2650.7	1239.8	1217.1	1306.1	1363.7	1374.2	1349.8	1320.1	1278.2	1267.7
35°	4662.2	2570.3	1150.7	1154.2	1227.5	1262.5	1253.7	1201.4	1143.7	1093.1	1084.4
37.5°	4997.5	2502.2	1082.6	1093.1	1142.0	1166.4	1140.2	1082.6	1056.4	1012.8	1014.5
40°	5294.3	2446.4	1021.5	1032.0	1054.7	1077.4	1035.5	997.1	1045.9	1042.5	1045.9
42.5°	5505.6	2399.2	969.1	963.9	979.6	995.3	963.9	944.7	1026.7	1004.0	1016.3
45°	5629.6	2355.6	925.5	894.0	918.5	946.4	925.5	901.0	929.0	824.2	815.5
47.5°	5713.4	2331.1	887.0	825.9	869.6	918.5	874.8	815.5	775.3	684.5	677.5
50°	5722.1	2318.9	841.6	756.1	812.0	864.3	813.7	731.6	674.0	633.9	628.6
52.5°	5767.5	2343.3	778.8	667.0	728.1	812.0	777.0	695.0	616.4	581.5	574.5
55°	5970.1	2446.4	674.0	544.8	633.9	771.8	747.4	619.9	544.8	523.8	518.6
57.5°	6179.6	2467.3	530.8	431.3	551.8	714.2	682.7	571.0	497.7	473.2	468.0
60°	5650.5	2032.5	398.1	356.2	487.2	660.0	632.1	541.3	455.7	426.1	420.8
62.5°	3712.3	1098.3	316.1	302.1	410.3	558.8	576.2	488.9	406.9	375.4	373.7
65°	1711.2	509.9	242.7	239.2	321.3	445.3	495.9	427.8	344.0	316.1	316.1
67.5°	466.2	253.2	190.3	176.4	218.3	298.6	361.5	319.5	244.5	211.3	209.5
70°	232.2	204.3	171.1	151.9	157.2	185.1	213.0	178.1	124.0	101.3	99.5
72.5°	190.3	167.6	144.9	129.2	118.7	113.5	110.0	89.1	57.6	43.7	41.9
75°	141.4	120.5	103.0	83.8	71.6	66.4	59.4	43.7	24.4	14.0	12.2
77.5°	31.4	29.7	27.9	21.0	19.2	15.7	12.2	8.7	3.5	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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)