

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: P642785

Luminaire Tested: GWS-SA6D-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37363.6 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 245.7
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

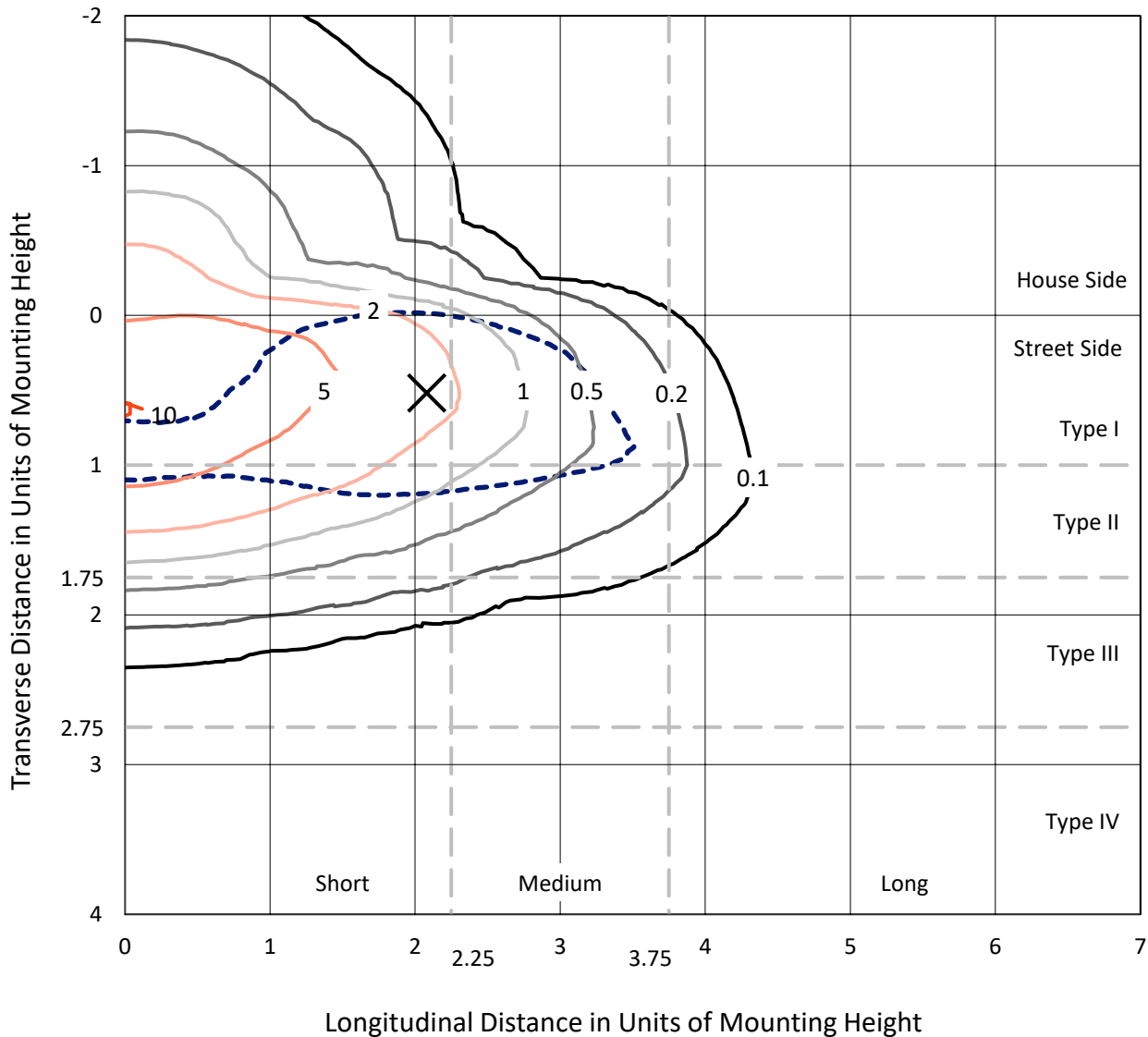


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Iso-Footcandle Lines of Horizontal Illumination

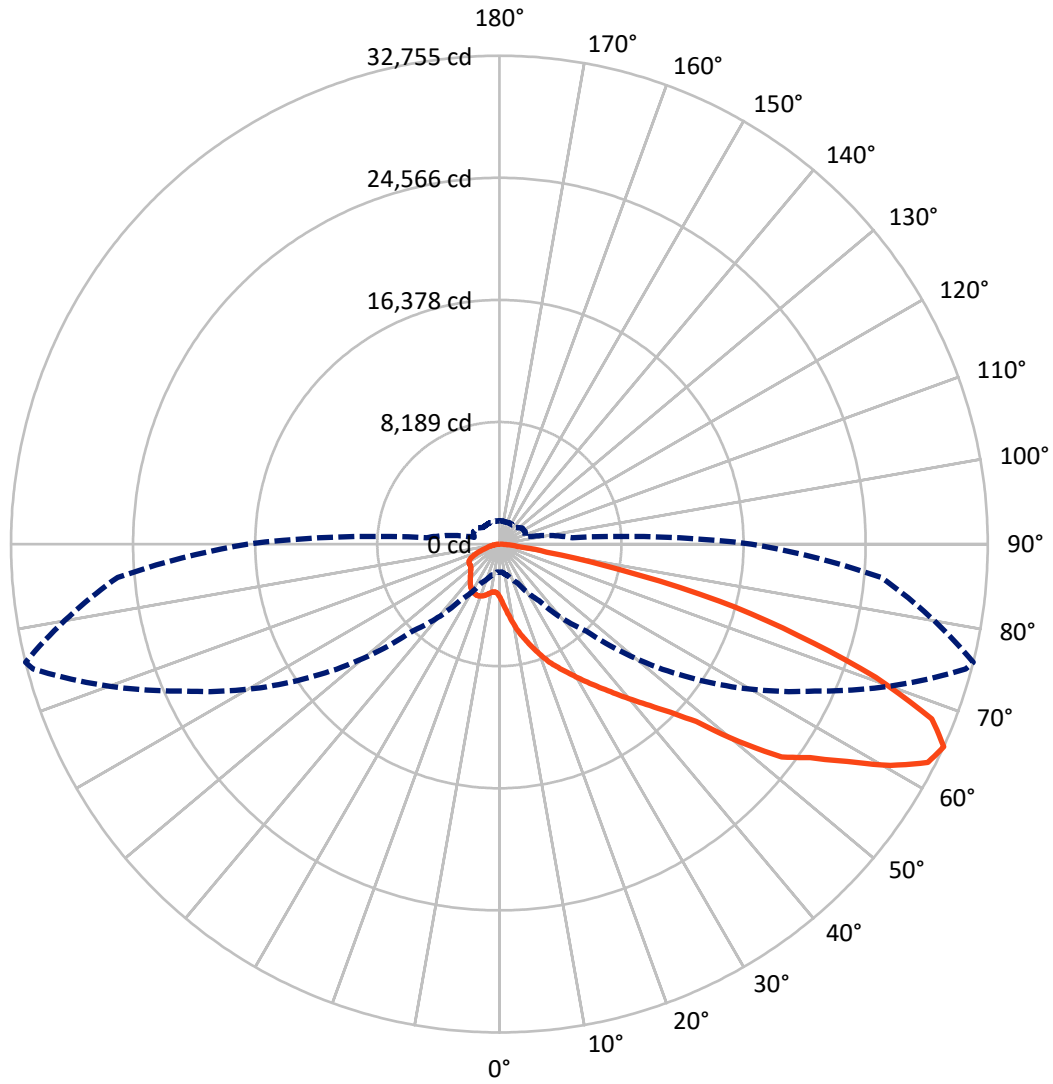
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6245.4	0.0	6245.4
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	31118.2	0.0	31118.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	37363.6	0.0	37363.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.4	1.1
10°-20°	1601.1	4.3
20°-30°	3120.3	8.4
30°-40°	5218.5	14.0
40°-50°	7471.9	20.0
50°-60°	8845.7	23.7
60°-70°	7355.3	19.7
70°-80°	3010.0	8.1
80°-90°	320.5	0.9
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°	37363.6	100.0
0°-180°	37363.6	100.0

Coefficient of Utilization



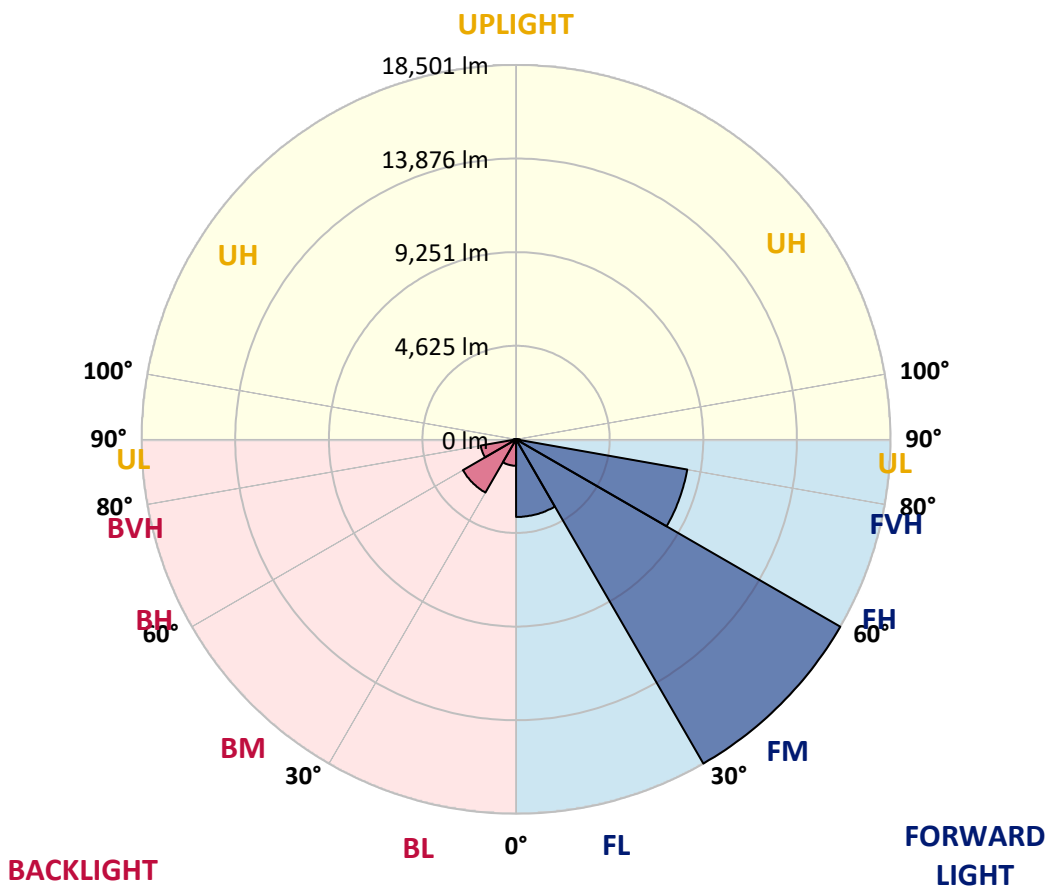
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3835.2	10.3			
FM (30°-60°)	18501.0	49.5			
FH (60°-80°)	8590.8	23.0			G4/12000
FVH (80°-90°)	191.1	0.5			G2/225
BL (0°-30°)	1306.5	3.5	B3/2500		
BM (30°-60°)	3035.1	8.1	B3/5000		
BH (60°-80°)	1774.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	129.3	0.3			G2/225
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°	75°	76°	85°
0°	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2
2.5°	4959.3	4977.6	4917.2	4896.2	4754.4	4562.6	4402.4	4160.7	3937.5	3903.3	3703.7
5°	6298.9	6220.1	6151.8	6107.1	5910.1	5692.1	5353.3	4898.8	4423.4	4365.6	3934.8
7.5°	7094.8	7081.6	6997.6	6971.3	6819.0	6601.0	6251.6	5686.9	4996.0	4901.5	4247.4
10°	7733.1	7725.2	7683.2	7706.8	7567.6	7354.8	7016.0	6432.8	5623.8	5529.3	4596.8
12.5°	8289.9	8303.1	8295.2	8381.9	8310.9	8145.5	7793.5	7152.6	6251.6	6149.2	5022.3
15°	8697.1	8707.6	8747.0	8936.1	8975.5	8941.4	8584.1	7859.2	6871.5	6724.4	5461.0
17.5°	8812.7	8833.7	8928.2	9232.9	9445.7	9587.5	9322.2	8578.9	7480.9	7320.7	5907.5
20°	8967.6	8991.3	9085.8	9403.7	9716.2	10039.3	9992.1	9309.1	8095.6	7964.2	6359.3
22.5°	9684.7	9666.3	9624.3	9776.7	9999.9	10401.8	10520.0	10010.4	8731.2	8605.1	6858.4
25°	11066.4	11032.2	10764.3	10625.1	10551.5	10795.8	11006.0	10648.7	9351.1	9162.0	7323.3
27.5°	12589.9	12571.5	12230.0	11899.1	11447.3	11342.2	11465.6	11205.6	9952.7	9760.9	7727.8
30°	14032.0	13976.8	13619.6	13204.5	12600.4	12148.6	11967.3	11752.0	10612.0	10412.3	8200.6
32.5°	15321.7	15250.7	14830.5	14370.8	13737.8	13204.5	12663.4	12332.5	11357.9	11126.8	8683.9
35°	16380.2	16309.3	15878.5	15390.0	14693.9	14299.9	13559.1	12962.9	12117.1	11883.3	9253.9
37.5°	17199.8	17134.1	16684.9	16204.2	15597.5	15284.9	14641.3	13672.1	12991.8	12747.5	9858.1
40°	17659.5	17612.2	17252.3	16871.4	16361.9	16091.3	15802.4	14567.8	13971.5	13727.3	10569.9
42.5°	17798.7	17767.1	17515.0	17318.0	16973.9	16769.0	16934.5	15621.1	15017.0	14804.2	11371.1
45°	17449.3	17449.3	17375.8	17475.6	17491.3	17488.7	18069.2	16811.0	16301.4	16067.7	12500.6
47.5°	16556.2	16614.0	16721.7	17212.9	17730.4	18163.8	19395.7	18397.6	17953.6	17761.9	14100.2
50°	14922.4	15080.0	15447.8	16406.5	17507.1	18610.3	20651.3	20743.2	21166.1	20827.3	16453.8
52.5°	12529.5	12505.8	13443.6	14809.5	16487.9	18628.7	21342.1	22813.1	23950.5	23716.7	18203.2
55°	9957.9	9918.5	10793.2	12676.6	14925.0	17924.8	21757.1	23761.3	25495.0	25284.8	19776.6
57.5°	7625.4	7575.5	8353.0	10052.5	12718.6	16430.1	21678.3	24890.8	27620.0	27512.3	21914.7
60°	5248.2	5187.8	5915.4	7402.1	10107.6	14144.9	20806.3	25471.3	30107.5	30144.3	24202.6
62.5°	3152.1	3117.9	3645.9	4799.0	7270.8	11313.3	18765.3	25119.3	32088.0	32253.5	25673.6
65°	1901.7	1878.1	2188.1	2863.1	4612.5	8255.8	15618.5	23320.0	32374.4	32755.2	25707.7
67.5°	1384.3	1386.9	1476.2	1744.1	2689.8	5332.2	11720.4	20094.4	30882.4	31276.4	24087.0
70°	1203.0	1208.3	1255.6	1316.0	1625.9	3052.3	7620.1	15862.8	26472.1	26776.8	20202.1
72.5°	1069.1	1069.1	1100.6	1132.1	1271.3	1859.7	4081.9	11087.4	20892.9	20974.4	15418.9
75°	940.4	932.5	948.2	964.0	1103.2	1300.2	1985.8	7725.2	15432.0	15242.9	9965.8
77.5°	748.6	740.7	743.4	759.1	885.2	929.9	1006.0	4825.3	8697.1	8208.5	4402.4
80°	533.2	528.0	556.9	596.3	654.1	570.0	630.4	2335.2	3448.9	3209.9	1707.4
82.5°	317.8	328.3	373.0	404.5	451.8	357.2	407.1	780.1	1221.4	1189.9	693.5
85°	44.7	47.3	134.0	155.0	194.4	139.2	215.4	352.0	488.6	522.7	244.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.4	63.0	139.2	141.8	60.4
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°	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2	3538.2
2.5°	3601.2	3477.8	3301.8	3154.7	3031.2	2931.4	2847.4	2784.3	2765.9	2739.7	2739.7
5°	3732.6	3509.3	3194.1	2970.8	2842.1	2765.9	2713.4	2687.1	2674.0	2658.2	2650.4
7.5°	3913.8	3601.2	3175.7	2949.8	2850.0	2802.7	2768.6	2752.8	2742.3	2726.5	2726.5
10°	4163.4	3737.8	3233.5	3023.4	2944.6	2897.3	2857.9	2831.6	2808.0	2784.3	2779.1
12.5°	4433.9	3916.4	3338.6	3123.2	3039.1	2981.3	2926.2	2886.8	2857.9	2829.0	2821.1
15°	4733.4	4100.3	3451.5	3220.4	3115.3	3036.5	2970.8	2910.4	2871.0	2829.0	2823.7
17.5°	5027.5	4286.8	3546.1	3286.0	3152.1	3054.9	2960.3	2881.5	2831.6	2784.3	2771.2
20°	5379.5	4473.3	3611.7	3304.4	3144.2	3015.5	2902.5	2802.7	2747.6	2692.4	2684.5
22.5°	5702.6	4646.7	3643.3	3278.1	3083.8	2931.4	2800.1	2692.4	2632.0	2576.8	2566.3
25°	6015.2	4799.0	3630.1	3215.1	2991.8	2815.8	2679.3	2571.6	2513.8	2456.0	2440.2
27.5°	6317.3	4901.5	3577.6	3117.9	2876.3	2687.1	2555.8	2458.6	2408.7	2358.8	2337.8
30°	6614.1	4996.0	3496.2	2991.8	2729.2	2553.2	2445.5	2377.2	2327.3	2274.7	2259.0
32.5°	6913.5	5064.3	3372.7	2844.7	2579.4	2435.0	2369.3	2319.4	2266.9	2214.3	2198.6
35°	7215.6	5093.2	3223.0	2676.6	2453.4	2358.8	2335.2	2277.4	2206.4	2143.4	2122.4
37.5°	7575.5	5119.5	3036.5	2511.1	2343.0	2322.0	2316.8	2230.1	2146.0	2059.4	2035.7
40°	8008.9	5153.6	2844.7	2361.4	2253.7	2308.9	2287.9	2169.7	2001.6	1917.5	1891.2
42.5°	8539.5	5216.7	2645.1	2224.8	2188.1	2259.0	2235.3	2022.6	1909.6	1862.3	1849.2
45°	9319.6	5447.8	2445.5	2117.1	2138.2	2188.1	2151.3	1935.9	1891.2	1859.7	1844.0
47.5°	10709.1	5802.4	2272.1	2035.7	2098.8	2125.0	1983.2	1912.3	1878.1	1836.1	1817.7
50°	12153.8	5957.4	2132.9	1985.8	2054.1	2067.2	1891.2	1880.7	1857.1	1812.4	1794.1
52.5°	13131.0	5936.4	2048.8	1967.4	2017.3	1967.4	1849.2	1846.6	1830.8	1778.3	1757.3
55°	14234.2	5973.2	2012.1	1972.7	2001.6	1799.3	1796.7	1804.6	1796.7	1738.9	1728.4
57.5°	15723.6	6086.1	1993.7	1991.1	1991.1	1717.9	1746.8	1757.3	1741.5	1715.2	1707.4
60°	17155.1	6094.0	1959.5	2012.1	1983.2	1668.0	1689.0	1699.5	1681.1	1675.8	1673.2
62.5°	17693.6	5715.7	1883.4	1996.3	1951.7	1612.8	1628.6	1633.8	1615.4	1628.6	1625.9
65°	16892.5	4912.0	1757.3	1920.1	1854.5	1562.9	1552.4	1565.5	1534.0	1568.2	1570.8
67.5°	14998.6	3903.3	1565.5	1775.7	1717.9	1507.7	1486.7	1486.7	1434.2	1486.7	1484.1
70°	12093.4	2758.1	1284.5	1544.5	1568.2	1442.1	1431.6	1371.1	1287.1	1365.9	1358.0
72.5°	9167.3	1980.5	1011.3	1221.4	1350.1	1350.1	1352.8	1250.3	1153.1	1189.9	1158.4
75°	5807.7	1394.8	809.0	935.1	1058.6	1184.7	1245.1	1055.9	969.3	953.5	937.7
77.5°	2616.2	916.7	630.4	717.1	751.2	935.1	1137.4	908.8	790.6	756.5	746.0
80°	1095.3	570.0	449.2	507.0	462.3	785.4	1003.4	706.6	580.5	533.2	499.1
82.5°	480.7	338.8	286.3	273.2	288.9	583.1	748.6	470.2	362.5	491.2	496.5
85°	202.3	178.6	147.1	134.0	118.2	223.3	352.0	183.9	225.9	128.7	105.1
87.5°	47.3	52.5	39.4	26.3	15.8	2.6	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)