

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: P638491

Luminaire Tested: GWS-SA4E-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24119.5 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

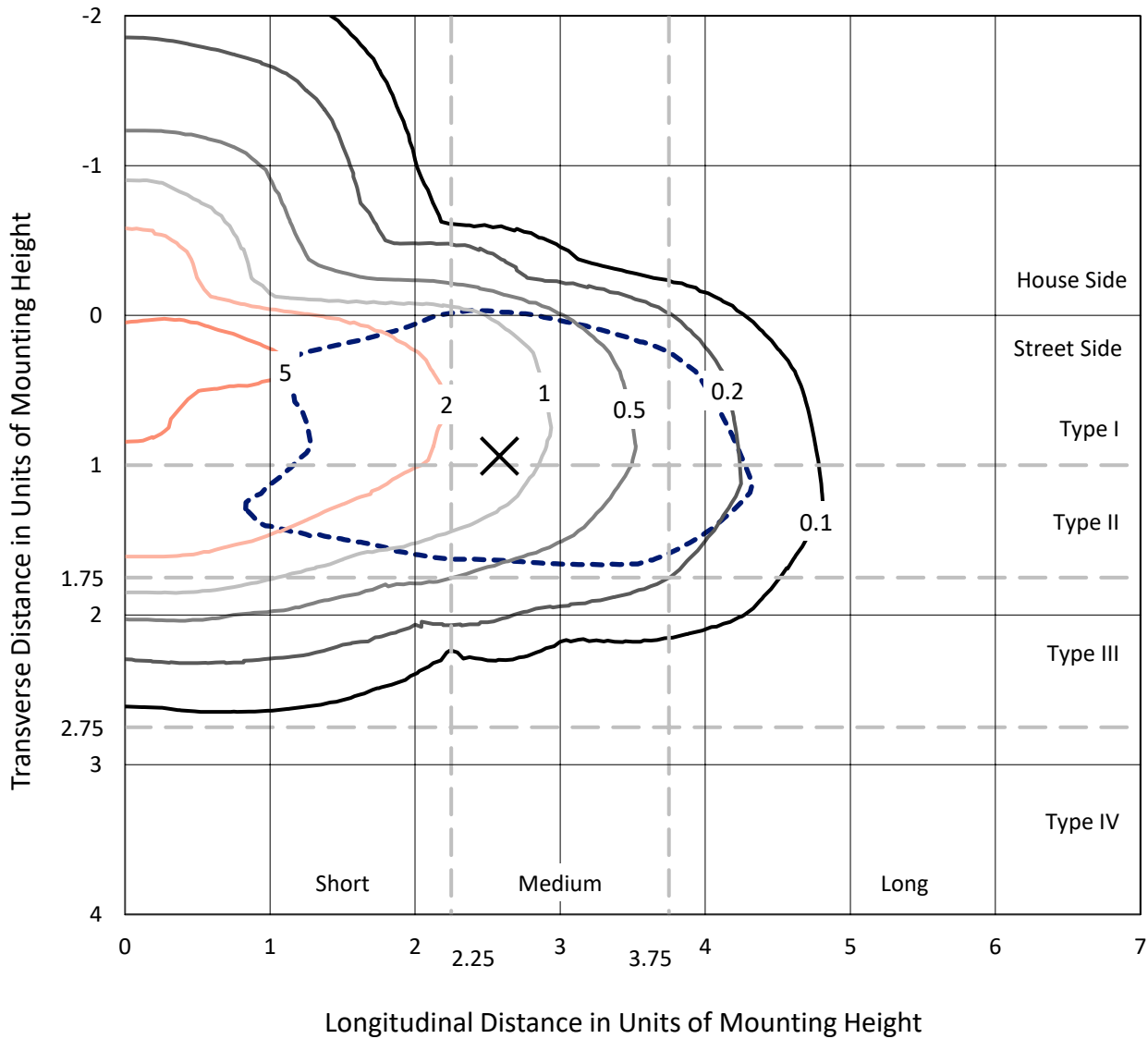
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

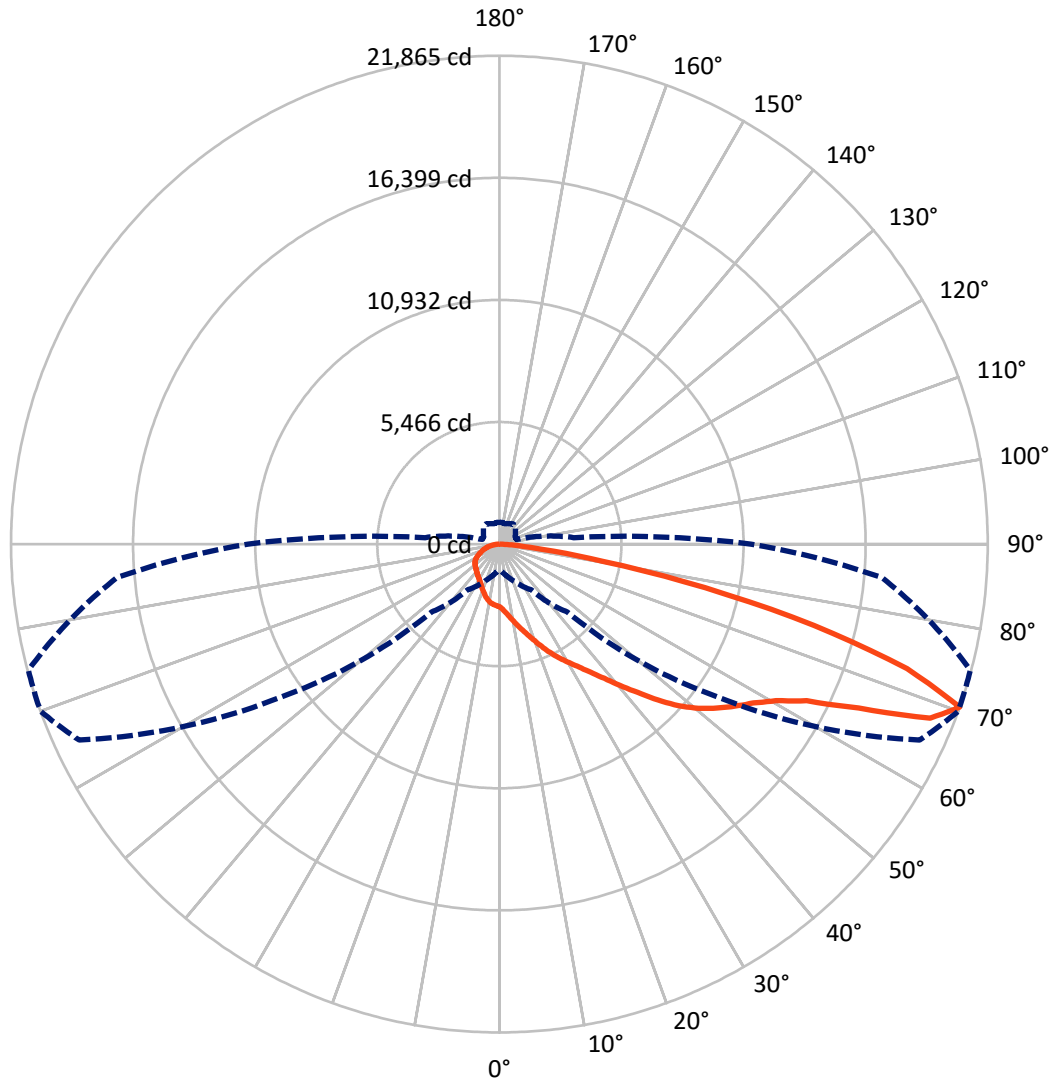
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4322.3	0.0	4322.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	19797.2	0.0	19797.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	24119.5	0.0	24119.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	1.2
10°-20°	930.0	3.9
20°-30°	1647.5	6.8
30°-40°	2479.6	10.3
40°-50°	3751.3	15.6
50°-60°	5374.0	22.3
60°-70°	5940.3	24.6
70°-80°	3352.3	13.9
80°-90°	358.6	1.5
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°	24119.5	100.0
0°-180°	24119.5	100.0

Coefficient of Utilization



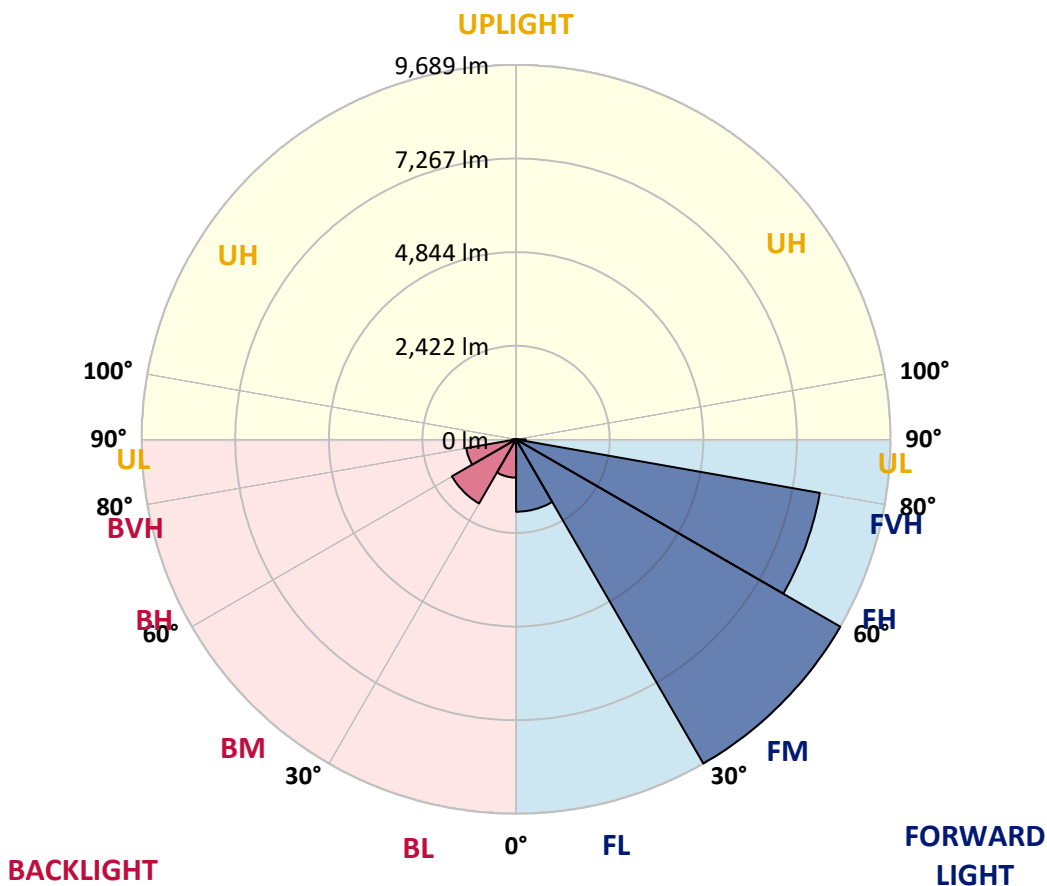
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.4	7.8			
FM (30°-60°)	9688.8	40.2			
FH (60°-80°)	7982.6	33.1			G4/12000
FVH (80°-90°)	253.5	1.1			G3/500
BL (0°-30°)	991.0	4.1	B2/1000		
BM (30°-60°)	1916.1	7.9	B2/2500		
BH (60°-80°)	1310.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	105.1	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	3116.1	3110.8	3114.3	3110.8	3091.7	3044.6	3006.3	2957.5	2924.4	2905.2	2859.9
5°	3482.1	3476.8	3464.6	3447.2	3412.3	3347.9	3252.0	3145.7	3081.2	3032.4	2936.6
7.5°	3745.2	3745.2	3743.5	3722.6	3698.2	3630.2	3516.9	3377.5	3283.4	3199.7	3042.9
10°	3879.4	3888.1	3900.3	3929.9	3924.7	3888.1	3781.8	3631.9	3513.4	3415.8	3182.3
12.5°	3952.6	3957.8	3978.7	4039.7	4102.5	4111.2	4048.5	3891.6	3762.6	3631.9	3337.4
15°	4046.7	4048.5	4076.3	4149.5	4241.9	4334.3	4318.6	4161.7	4029.3	3884.6	3509.9
17.5°	4119.9	4132.1	4182.7	4268.0	4383.1	4510.3	4587.0	4489.4	4325.6	4160.0	3698.2
20°	4146.1	4154.8	4221.0	4351.7	4508.5	4688.1	4858.8	4832.7	4667.1	4472.0	3910.8
22.5°	4240.2	4240.2	4289.0	4398.8	4583.5	4844.9	5122.0	5190.0	5043.6	4815.3	4139.1
25°	4447.6	4440.6	4463.2	4508.5	4648.0	4970.4	5381.7	5585.6	5421.8	5165.6	4367.4
27.5°	4731.6	4728.1	4726.4	4733.4	4780.4	5080.2	5601.3	5955.1	5791.2	5501.9	4571.3
30°	5040.1	5029.6	5052.3	5031.4	5020.9	5210.9	5787.7	6286.2	6159.0	5834.8	4740.3
32.5°	5460.1	5440.9	5435.7	5367.7	5325.9	5414.8	5937.6	6662.6	6561.5	6193.8	4930.3
35°	6014.3	5996.9	5908.0	5799.9	5676.2	5718.0	6124.1	7030.3	7037.3	6643.4	5179.5
37.5°	6573.7	6577.2	6507.5	6253.1	6125.8	6101.4	6408.2	7478.2	7628.1	7180.2	5501.9
40°	7039.1	7060.0	7060.0	6791.6	6601.6	6579.0	6807.3	8009.8	8307.8	7839.0	5909.7
42.5°	7392.8	7412.0	7473.0	7279.6	7079.1	7157.6	7291.8	8543.1	9078.1	8652.9	6425.6
45°	7781.5	7797.2	7830.3	7718.7	7602.0	7811.1	7840.7	9180.9	9959.9	9566.1	7025.1
47.5°	8297.3	8283.4	8286.9	8205.0	8114.3	8452.4	8445.5	9717.7	10812.2	10566.4	7675.2
50°	8938.7	8964.8	8940.4	8778.3	8672.0	8980.5	9020.6	10312.0	11561.5	11556.3	8330.4
52.5°	9555.6	9566.1	9695.0	9702.0	9484.2	9419.7	9524.2	10911.5	12194.2	12462.6	8959.6
55°	9587.0	9627.1	10014.0	10292.8	10644.8	10127.2	10033.1	11483.1	12805.9	13349.6	9613.1
57.5°	8919.5	8984.0	9641.0	10242.3	11221.7	11342.0	10904.5	12222.1	13417.6	14222.8	10369.5
60°	7493.9	7628.1	8520.4	9440.6	10962.0	12215.1	12687.4	13225.9	14221.0	15115.1	11287.9
62.5°	4785.7	4837.9	6089.2	7629.9	9792.6	12129.7	14628.8	14994.8	15444.4	16277.5	12703.1
65°	2396.3	2563.6	3297.3	4553.9	7061.7	10688.4	15610.0	18234.6	17683.9	18267.7	14996.5
67.5°	1626.0	1680.0	2051.2	2736.2	4140.8	7572.3	15001.8	20963.8	20801.7	20897.6	17441.7
70°	1199.0	1233.9	1526.7	1938.0	2504.4	4299.4	11943.2	20758.2	21864.8	21830.0	17185.5
72.5°	874.9	892.3	1113.6	1479.6	1856.1	2223.8	7293.5	16768.9	19086.8	20092.4	15029.7
75°	636.1	657.0	773.8	1106.7	1443.0	1387.2	3600.6	12112.3	14555.6	16490.1	12244.7
77.5°	474.0	500.2	554.2	693.6	1010.8	993.4	1556.3	7865.1	9414.5	10770.3	7438.1
80°	341.6	346.8	378.2	444.4	641.3	582.1	740.7	4100.7	4702.0	5151.6	2915.7
82.5°	207.4	212.6	252.7	273.6	397.4	366.0	385.2	1328.0	1903.1	2019.9	1089.2
85°	61.0	64.5	115.0	125.5	165.6	156.8	155.1	540.3	644.8	824.3	428.7
87.5°	0.0	0.0	0.0	0.0	1.7	10.5	19.2	95.9	144.7	200.4	104.6
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°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	2842.5	2802.4	2781.5	2744.9	2718.7	2692.6	2666.4	2642.0	2631.6	2615.9	2619.4
5°	2893.0	2830.3	2767.5	2696.1	2635.1	2584.5	2539.2	2499.1	2481.7	2466.0	2473.0
7.5°	2969.7	2875.6	2755.3	2624.6	2528.8	2459.1	2412.0	2384.1	2375.4	2363.2	2363.2
10°	3067.3	2926.1	2715.2	2528.8	2413.7	2358.0	2337.1	2335.3	2344.0	2345.8	2342.3
12.5°	3175.3	2974.9	2656.0	2415.5	2317.9	2300.5	2316.1	2345.8	2375.4	2391.1	2387.6
15°	3286.9	3006.3	2554.9	2307.4	2248.2	2270.8	2321.4	2380.6	2438.1	2467.8	2466.0
17.5°	3391.4	3013.3	2424.2	2202.9	2187.2	2244.7	2331.8	2424.2	2502.6	2544.4	2546.2
20°	3508.2	3001.1	2290.0	2108.8	2126.2	2220.3	2335.3	2446.9	2539.2	2581.0	2591.5
22.5°	3614.5	2959.2	2159.3	2019.9	2073.9	2190.7	2307.4	2412.0	2493.9	2534.0	2547.9
25°	3710.4	2879.1	2016.4	1944.9	2033.8	2148.8	2237.7	2310.9	2368.4	2392.8	2412.0
27.5°	3762.6	2758.8	1908.3	1885.7	1995.5	2089.6	2138.4	2161.0	2180.2	2173.2	2187.2
30°	3773.1	2608.9	1814.2	1838.6	1938.0	2007.7	2018.1	1995.5	1962.4	1908.3	1920.5
32.5°	3762.6	2436.4	1735.8	1788.1	1873.5	1915.3	1901.4	1842.1	1761.9	1678.3	1683.5
35°	3766.1	2262.1	1671.3	1732.3	1798.5	1821.2	1786.3	1704.4	1619.0	1542.4	1538.9
37.5°	3804.5	2115.7	1617.3	1678.3	1725.3	1728.8	1690.5	1605.1	1561.5	1504.0	1497.0
40°	3910.8	2007.7	1568.5	1624.3	1653.9	1652.1	1608.6	1547.6	1577.2	1558.0	1552.8
42.5°	4085.1	1941.4	1528.4	1566.8	1587.7	1591.2	1556.3	1518.0	1582.4	1558.0	1549.3
45°	4365.6	1938.0	1500.5	1509.2	1542.4	1566.8	1542.4	1498.8	1523.2	1404.7	1382.0
47.5°	4698.5	1997.2	1479.6	1458.7	1516.2	1559.8	1521.4	1451.7	1401.2	1293.1	1277.5
50°	5099.3	2117.5	1460.4	1404.7	1477.9	1533.6	1495.3	1399.4	1322.8	1265.3	1256.5
52.5°	5575.1	2276.1	1436.0	1343.7	1420.4	1519.7	1495.3	1394.2	1293.1	1240.9	1232.1
55°	6073.6	2459.1	1408.2	1270.5	1355.9	1523.2	1507.5	1357.6	1270.5	1242.6	1235.6
57.5°	6692.2	2678.6	1357.6	1185.1	1298.4	1491.8	1458.7	1336.7	1254.8	1232.1	1225.2
60°	7495.7	3004.5	1261.8	1097.9	1232.1	1436.0	1415.1	1301.9	1213.0	1193.8	1188.6
62.5°	8767.9	3557.0	1145.0	1014.3	1153.7	1319.3	1350.6	1235.6	1160.7	1158.9	1157.2
65°	10841.8	4221.0	1007.3	939.4	1071.8	1223.4	1265.3	1167.7	1106.7	1125.8	1124.1
67.5°	12295.3	4278.5	894.0	860.9	976.0	1118.9	1179.9	1097.9	1031.7	1068.3	1066.6
70°	11261.8	3337.4	796.4	779.0	873.1	1005.6	1087.5	1010.8	944.6	979.4	972.5
72.5°	9498.1	2558.4	704.1	693.6	768.6	887.1	969.0	923.7	854.0	854.0	838.3
75°	7633.3	2110.5	606.5	601.3	651.8	766.8	859.2	782.5	718.0	714.5	704.1
77.5°	4377.8	1383.8	508.9	505.4	521.1	641.3	667.5	651.8	603.0	580.3	573.4
80°	1744.5	719.8	400.8	378.2	393.9	470.5	526.3	500.2	458.3	430.5	414.8
82.5°	676.2	360.8	282.3	247.5	270.1	339.8	381.7	373.0	345.1	282.3	264.9
85°	275.4	176.0	169.0	142.9	156.8	183.0	219.6	190.0	156.8	111.5	106.3
87.5°	73.2	64.5	62.7	38.3	29.6	8.7	1.7	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)