

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: P640196

Luminaire Tested: GWS-SA5D-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640196
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-SA5D-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29396.6 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

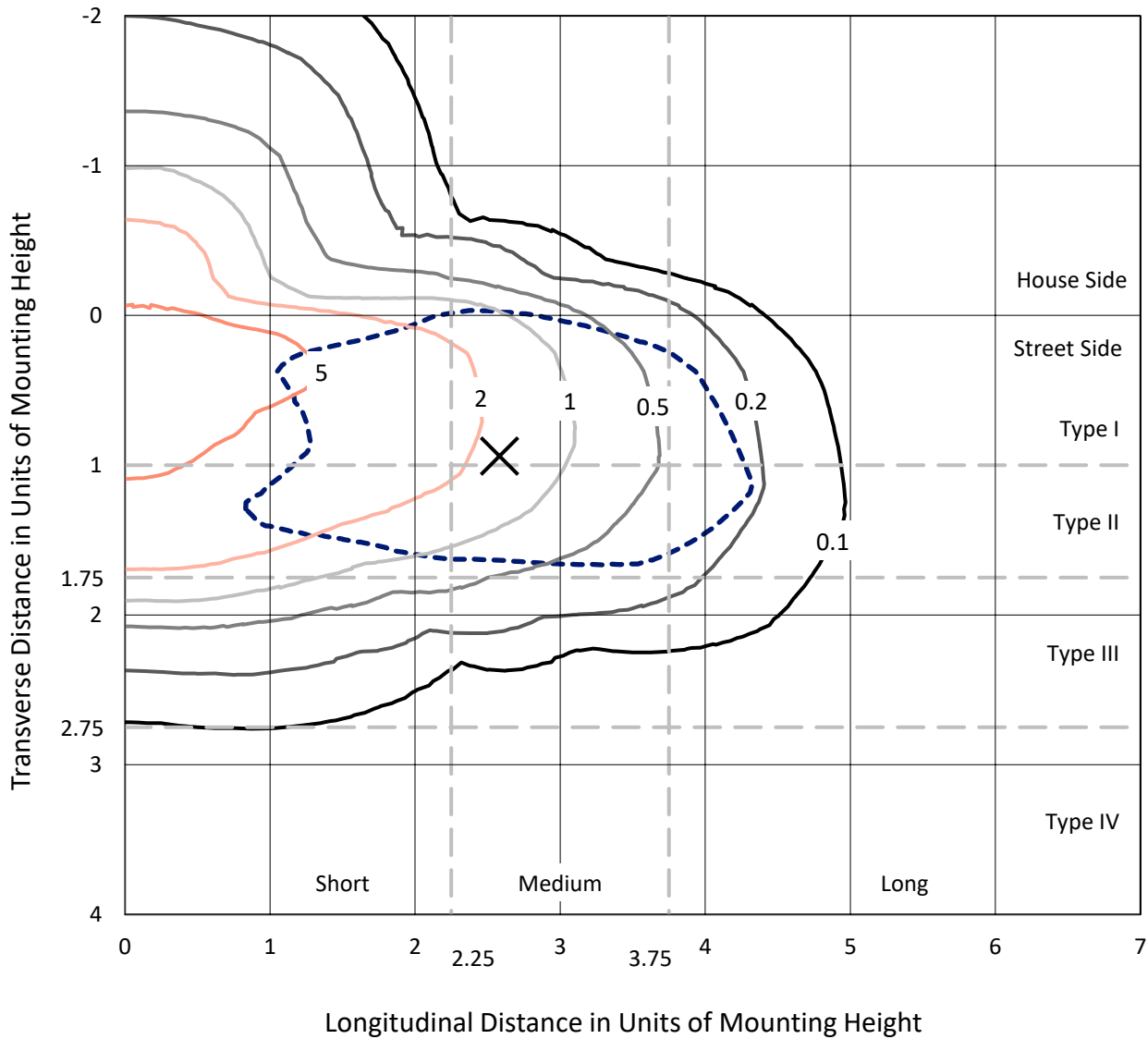
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

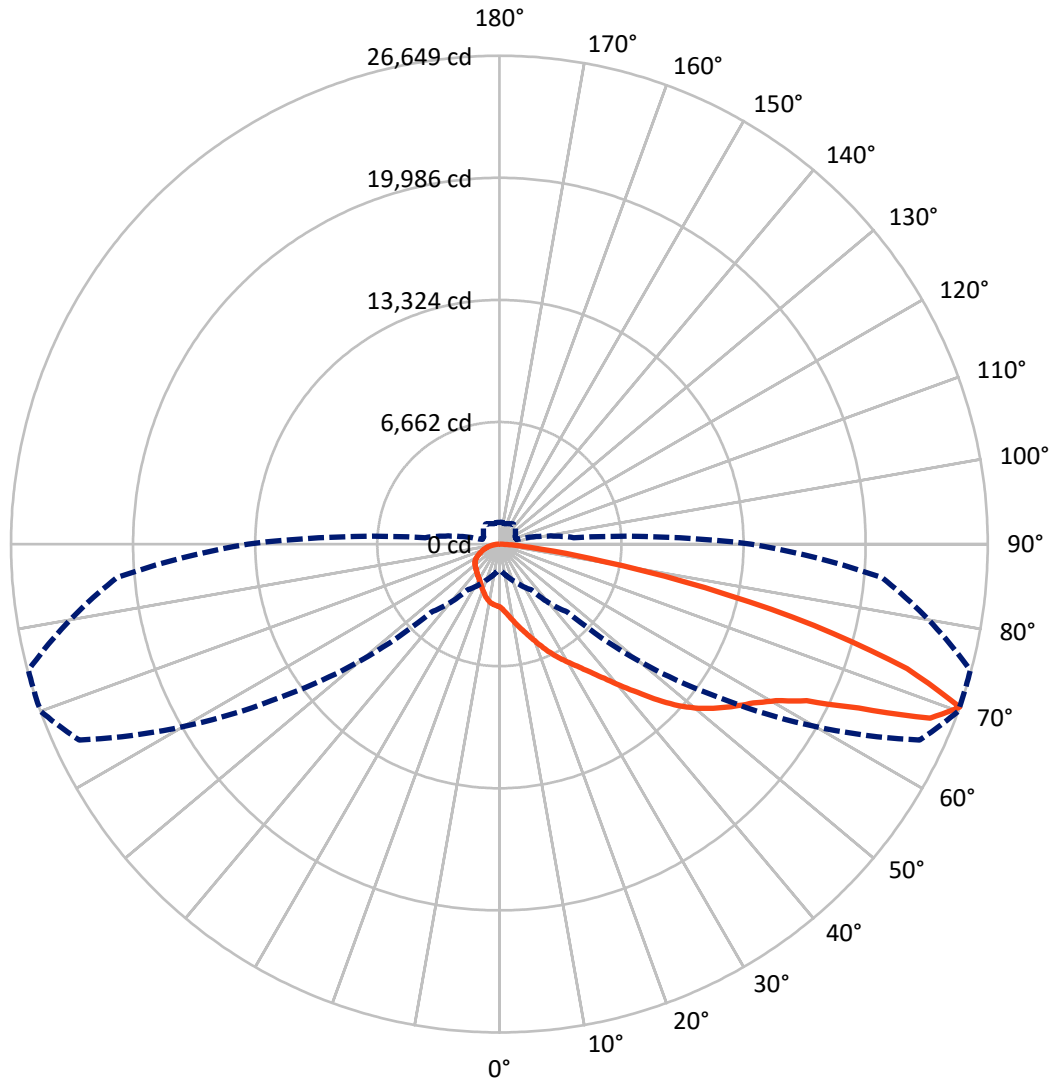
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	5267.9	0.0	5267.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	24128.7	0.0	24128.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	29396.6	0.0	29396.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	1.2
10°-20°	1133.5	3.9
20°-30°	2008.0	6.8
30°-40°	3022.1	10.3
40°-50°	4572.1	15.6
50°-60°	6549.7	22.3
60°-70°	7240.0	24.6
70°-80°	4085.7	13.9
80°-90°	437.0	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°	29396.6	100.0
0°-180°	29396.6	100.0

Coefficient of Utilization



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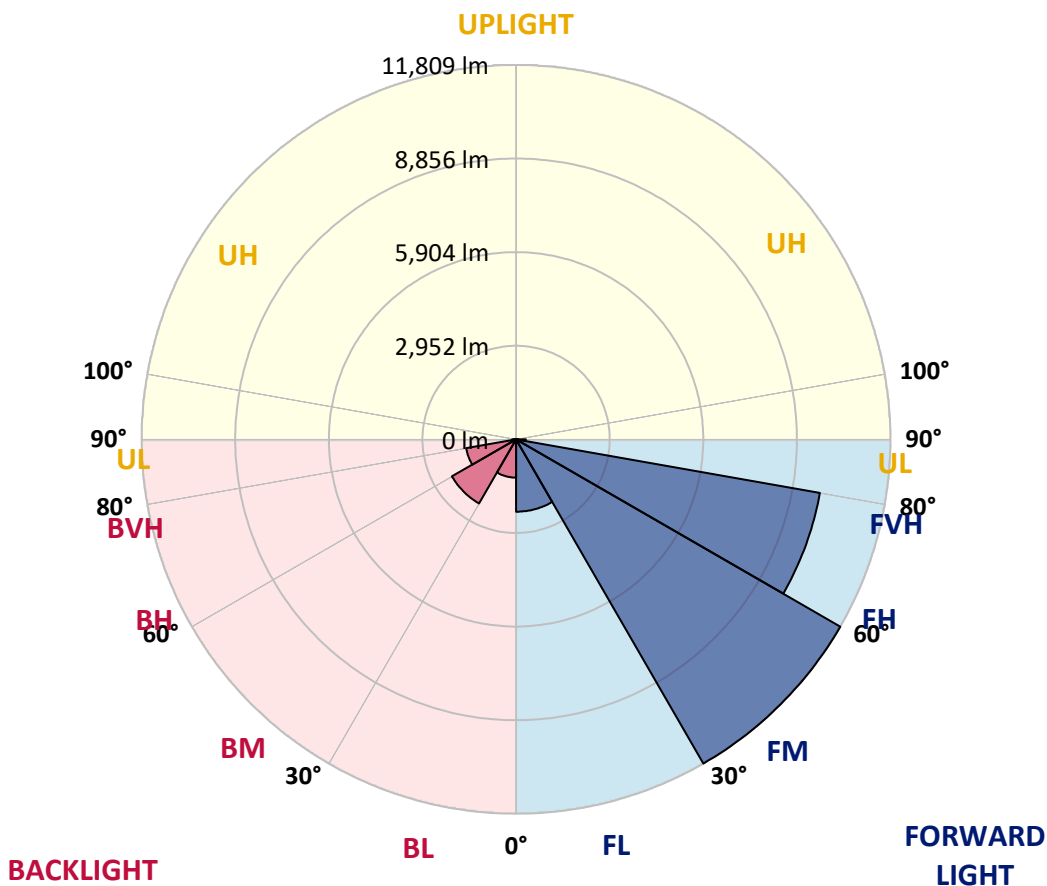
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2282.1	7.8			
FM (30°-60°)	11808.6	40.2			
FH (60°-80°)	9729.1	33.1			G4/12000
FVH (80°-90°)	308.9	1.1			G3/500
BL (0°-30°)	1207.9	4.1	B3/2500		
BM (30°-60°)	2335.3	7.9	B2/2500		
BH (60°-80°)	1596.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	128.1	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°	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3
2.5°	3797.8	3791.5	3795.7	3791.5	3768.1	3710.8	3664.0	3604.6	3564.2	3540.8	3485.6
5°	4243.9	4237.5	4222.7	4201.4	4158.9	4080.3	3963.5	3834.0	3755.4	3695.9	3579.1
7.5°	4564.6	4564.6	4562.5	4537.0	4507.3	4424.4	4286.4	4116.5	4001.8	3899.8	3708.6
10°	4728.2	4738.8	4753.7	4789.8	4783.4	4738.8	4609.2	4426.6	4282.1	4163.2	3878.6
12.5°	4817.4	4823.8	4849.3	4923.6	5000.1	5010.7	4934.2	4743.1	4585.9	4426.6	4067.6
15°	4932.1	4934.2	4968.2	5057.4	5170.0	5282.6	5263.5	5072.3	4910.9	4734.6	4277.9
17.5°	5021.3	5036.2	5097.8	5201.9	5342.0	5497.1	5590.6	5471.6	5271.9	5070.2	4507.3
20°	5053.2	5063.8	5144.5	5303.8	5495.0	5713.8	5921.9	5890.1	5688.3	5450.4	4766.4
22.5°	5167.9	5167.9	5227.3	5361.2	5586.3	5904.9	6242.6	6325.5	6147.1	5868.8	5044.7
25°	5420.6	5412.1	5439.7	5495.0	5664.9	6057.9	6559.1	6807.7	6608.0	6295.7	5322.9
27.5°	5766.9	5762.6	5760.5	5769.0	5826.3	6191.7	6826.8	7258.0	7058.3	6705.7	5571.4
30°	6142.8	6130.1	6157.7	6132.2	6119.5	6351.0	7054.0	7661.5	7506.5	7111.4	5777.5
32.5°	6654.7	6631.4	6625.0	6542.1	6491.2	6599.5	7236.7	8120.3	7997.1	7549.0	6009.0
35°	7330.2	7308.9	7200.6	7068.9	6918.1	6969.1	7464.0	8568.5	8577.0	8097.0	6312.7
37.5°	8012.0	8016.2	7931.3	7621.2	7466.1	7436.4	7810.2	9114.4	9297.1	8751.2	6705.7
40°	8579.1	8604.6	8604.6	8277.5	8046.0	8018.4	8296.6	9762.2	10125.5	9554.1	7202.7
42.5°	9010.3	9033.7	9108.0	8872.2	8628.0	8723.6	8887.1	10412.2	11064.3	10546.0	7831.5
45°	9484.0	9503.1	9543.5	9407.5	9265.2	9520.1	9556.2	11189.6	12139.1	11659.0	8562.1
47.5°	10112.7	10095.7	10100.0	10000.1	9889.7	10301.7	10293.3	11843.8	13177.7	12878.2	9354.4
50°	10894.4	10926.2	10896.5	10699.0	10569.4	10945.3	10994.2	12568.1	14091.1	14084.7	10153.1
52.5°	11646.3	11659.0	11816.2	11824.7	11559.2	11480.6	11608.1	13298.8	14862.1	15189.2	10919.9
55°	11684.5	11733.4	12204.9	12544.8	12973.8	12343.0	12228.3	13995.5	15607.7	16270.4	11716.4
57.5°	10871.0	10949.6	11750.4	12483.2	13676.9	13823.5	13290.3	14896.1	16353.2	17334.6	12638.2
60°	9133.5	9297.1	10384.6	11506.1	13360.4	14887.6	15463.2	16119.6	17332.4	18422.1	13757.6
62.5°	5832.7	5896.4	7421.5	9299.2	11935.2	14783.5	17829.5	18275.5	18823.5	19838.8	15482.4
65°	2920.6	3124.5	4018.7	5550.2	8606.7	13026.9	19025.3	22224.2	21553.0	22264.5	18277.6
67.5°	1981.8	2047.6	2500.0	3334.8	5046.8	9229.1	18284.0	25550.5	25352.9	25469.7	21257.7
70°	1461.4	1503.8	1860.7	2362.0	3052.3	5240.1	14556.3	25299.8	26648.6	26606.1	20945.5
72.5°	1066.3	1087.5	1357.3	1803.3	2262.1	2710.3	8889.2	20437.8	23262.8	24488.4	18318.0
75°	775.3	800.8	943.1	1348.8	1758.7	1690.8	4388.3	14762.3	17740.2	20098.0	14923.7
77.5°	577.7	609.6	675.5	845.4	1232.0	1210.7	1896.8	9585.9	11474.2	13126.8	9065.5
80°	416.3	422.7	460.9	541.6	781.7	709.4	902.7	4997.9	5730.7	6278.8	3553.6
82.5°	252.8	259.1	308.0	333.5	484.3	446.1	469.4	1618.5	2319.5	2461.8	1327.5
85°	74.3	78.6	140.2	152.9	201.8	191.2	189.0	658.5	785.9	1004.7	522.5
87.5°	0.0	0.0	0.0	0.0	2.1	12.7	23.4	116.8	176.3	244.3	127.4
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°	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3	3428.3
2.5°	3464.4	3415.5	3390.0	3345.4	3313.6	3281.7	3249.8	3220.1	3207.3	3188.2	3192.5
5°	3526.0	3449.5	3373.0	3285.9	3211.6	3150.0	3094.8	3045.9	3024.7	3005.6	3014.1
7.5°	3619.4	3504.7	3358.2	3198.9	3082.0	2997.1	2939.7	2905.7	2895.1	2880.2	2880.2
10°	3738.4	3566.3	3309.3	3082.0	2941.8	2873.9	2848.4	2846.3	2856.9	2859.0	2854.8
12.5°	3870.1	3625.8	3237.1	2944.0	2825.0	2803.8	2822.9	2859.0	2895.1	2914.2	2910.0
15°	4006.0	3664.0	3113.9	2812.3	2740.1	2767.7	2829.3	2901.5	2971.6	3007.7	3005.6
17.5°	4133.4	3672.5	2954.6	2684.8	2665.7	2735.8	2842.0	2954.6	3050.2	3101.1	3103.3
20°	4275.8	3657.7	2791.0	2570.1	2591.4	2706.1	2846.3	2982.2	3094.8	3145.8	3158.5
22.5°	4405.3	3606.7	2631.7	2461.8	2527.6	2670.0	2812.3	2939.7	3039.5	3088.4	3105.4
25°	4522.1	3509.0	2457.6	2370.5	2478.8	2619.0	2727.3	2816.5	2886.6	2916.4	2939.7
27.5°	4585.9	3362.4	2325.9	2298.2	2432.1	2546.8	2606.2	2633.8	2657.2	2648.7	2665.7
30°	4598.6	3179.7	2211.2	2240.9	2362.0	2446.9	2459.7	2432.1	2391.7	2325.9	2340.7
32.5°	4585.9	2969.5	2115.6	2179.3	2283.4	2334.4	2317.4	2245.1	2147.4	2045.5	2051.9
35°	4590.1	2757.0	2037.0	2111.3	2192.0	2219.7	2177.2	2077.3	1973.3	1879.8	1875.6
37.5°	4636.8	2578.6	1971.1	2045.5	2102.8	2107.1	2060.3	1956.3	1903.2	1833.1	1824.6
40°	4766.4	2446.9	1911.7	1979.6	2015.7	2013.6	1960.5	1886.2	1922.3	1898.9	1892.5
42.5°	4978.8	2366.2	1862.8	1909.5	1935.0	1939.3	1896.8	1850.1	1928.7	1898.9	1888.3
45°	5320.8	2362.0	1828.8	1839.4	1879.8	1909.5	1879.8	1826.7	1856.4	1712.0	1684.4
47.5°	5726.5	2434.2	1803.3	1777.8	1847.9	1901.0	1854.3	1769.4	1707.8	1576.1	1556.9
50°	6215.0	2580.7	1780.0	1712.0	1801.2	1869.2	1822.5	1705.6	1612.2	1542.1	1531.5
52.5°	6794.9	2774.0	1750.2	1637.7	1731.1	1852.2	1822.5	1699.3	1576.1	1512.3	1501.7
55°	7402.4	2997.1	1716.3	1548.4	1652.5	1856.4	1837.3	1654.7	1548.4	1514.5	1506.0
57.5°	8156.4	3264.7	1654.7	1444.4	1582.4	1818.2	1777.8	1629.2	1529.3	1501.7	1493.2
60°	9135.6	3661.9	1537.8	1338.2	1501.7	1750.2	1724.7	1586.7	1478.4	1455.0	1448.6
62.5°	10686.2	4335.2	1395.5	1236.2	1406.1	1607.9	1646.2	1506.0	1414.6	1412.5	1410.4
65°	13213.9	5144.5	1227.7	1144.9	1306.3	1491.1	1542.1	1423.1	1348.8	1372.2	1370.0
67.5°	14985.3	5214.6	1089.6	1049.3	1189.5	1363.7	1438.0	1338.2	1257.5	1302.1	1299.9
70°	13725.8	4067.6	970.7	949.5	1064.2	1225.6	1325.4	1232.0	1151.2	1193.7	1185.2
72.5°	11576.2	3118.1	858.1	845.4	936.7	1081.2	1181.0	1125.8	1040.8	1040.8	1021.7
75°	9303.4	2572.3	739.2	732.8	794.4	934.6	1047.2	953.7	875.1	870.9	858.1
77.5°	5335.7	1686.5	620.2	616.0	635.1	781.7	813.5	794.4	734.9	707.3	698.8
80°	2126.2	877.2	488.5	460.9	480.0	573.5	641.5	609.6	558.6	524.6	505.5
82.5°	824.1	439.7	344.1	301.6	329.2	414.2	465.2	454.6	420.6	344.1	322.9
85°	335.6	214.5	206.0	174.2	191.2	223.0	267.6	231.5	191.2	135.9	129.6
87.5°	89.2	78.6	76.5	46.7	36.1	10.6	2.1	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)