

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: P639811

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639811
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-SA5C-750-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24167 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

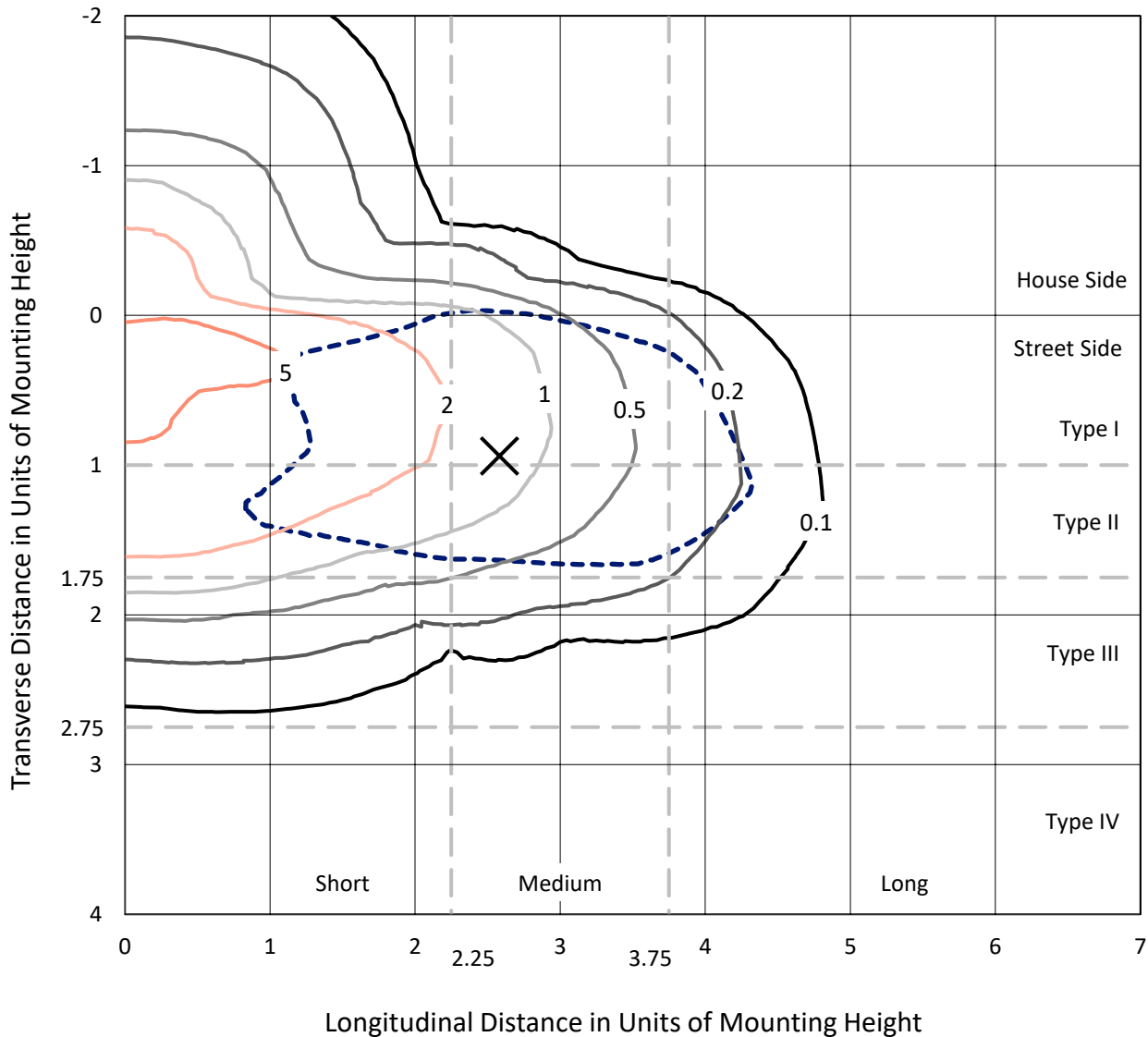
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

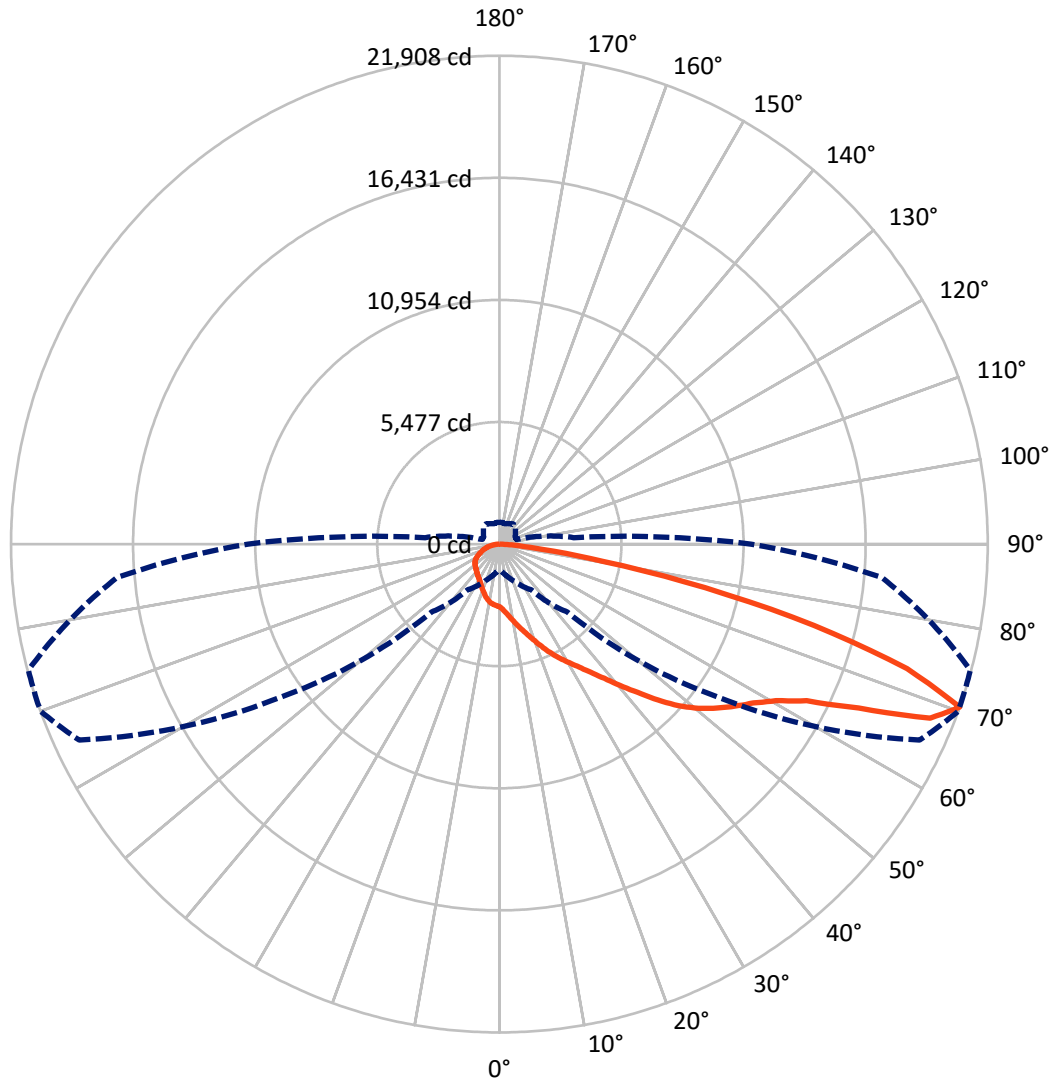
✕ Max cd
 - - - 1/2 Max cd



Based on 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	4330.8	0.0	4330.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	19836.2	0.0	19836.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	24167.0	0.0	24167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	1.2
10°-20°	931.8	3.9
20°-30°	1650.8	6.8
30°-40°	2484.5	10.3
40°-50°	3758.7	15.6
50°-60°	5384.6	22.3
60°-70°	5952.0	24.6
70°-80°	3358.9	13.9
80°-90°	359.3	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°	24167.0	100.0
0°-180°	24167.0	100.0

Coefficient of Utilization



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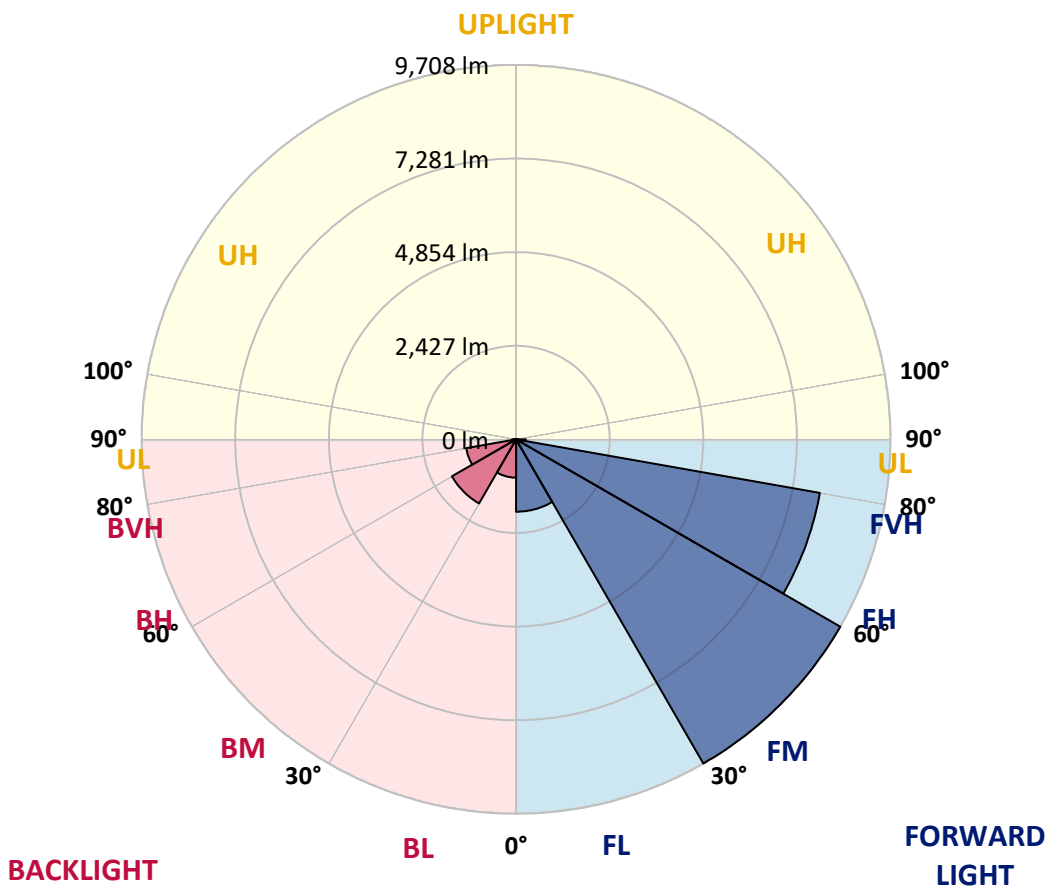
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.1	7.8			
FM (30°-60°)	9707.9	40.2			
FH (60°-80°)	7998.3	33.1			G4/12000
FVH (80°-90°)	254.0	1.1			G3/500
BL (0°-30°)	993.0	4.1	B2/1000		
BM (30°-60°)	1919.9	7.9	B2/2500		
BH (60°-80°)	1312.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	105.3	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°	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4
2.5°	3122.2	3117.0	3120.5	3117.0	3097.8	3050.6	3012.2	2963.3	2930.1	2910.9	2865.5
5°	3488.9	3483.7	3471.5	3454.0	3419.1	3354.5	3258.4	3151.9	3087.3	3038.4	2942.4
7.5°	3752.6	3752.6	3750.8	3729.9	3705.4	3637.3	3523.8	3384.1	3289.8	3206.0	3048.9
10°	3887.0	3895.8	3908.0	3937.7	3932.5	3895.8	3789.3	3639.1	3520.3	3422.6	3188.6
12.5°	3960.4	3965.6	3986.6	4047.7	4110.6	4119.3	4056.4	3899.3	3770.1	3639.1	3344.0
15°	4054.7	4056.4	4084.4	4157.7	4250.3	4342.8	4327.1	4169.9	4037.2	3892.3	3516.9
17.5°	4128.0	4140.2	4190.9	4276.5	4391.7	4519.2	4596.0	4498.2	4334.1	4168.2	3705.4
20°	4154.2	4162.9	4229.3	4360.3	4517.4	4697.3	4868.4	4842.2	4676.3	4480.8	3918.5
22.5°	4248.5	4248.5	4297.4	4407.4	4592.5	4854.4	5132.1	5200.2	5053.5	4824.8	4147.2
25°	4456.3	4449.3	4472.0	4517.4	4657.1	4980.2	5392.3	5596.6	5432.4	5175.7	4376.0
27.5°	4740.9	4737.5	4735.7	4742.7	4789.8	5090.2	5612.3	5966.8	5802.6	5512.8	4580.3
30°	5050.0	5039.5	5062.2	5041.3	5030.8	5221.1	5799.1	6298.6	6171.1	5846.3	4749.7
32.5°	5470.9	5451.6	5446.4	5378.3	5336.4	5425.5	5949.3	6675.7	6574.5	6206.0	4940.0
35°	6026.1	6008.7	5919.6	5811.4	5687.4	5729.3	6136.2	7044.2	7051.2	6656.5	5189.7
37.5°	6586.7	6590.2	6520.3	6265.4	6137.9	6113.5	6420.8	7493.0	7643.1	7194.4	5512.8
40°	7052.9	7073.9	7073.9	6805.0	6614.6	6591.9	6820.7	8025.6	8324.2	7854.4	5921.4
42.5°	7407.4	7426.6	7487.7	7293.9	7093.1	7171.7	7306.1	8559.9	9096.0	8669.9	6438.3
45°	7796.8	7812.5	7845.7	7733.9	7616.9	7826.5	7856.2	9199.0	9979.6	9584.9	7038.9
47.5°	8313.7	8299.7	8303.2	8221.1	8130.3	8469.1	8462.1	9736.8	10833.4	10587.2	7690.3
50°	8956.3	8982.5	8958.0	8795.6	8689.1	8998.2	9038.3	10332.3	11584.3	11579.1	8346.9
52.5°	9574.4	9584.9	9714.1	9721.1	9502.8	9438.2	9543.0	10933.0	12218.2	12487.1	8977.2
55°	9605.9	9646.0	10033.7	10313.1	10665.8	10147.2	10052.9	11505.7	12831.1	13375.9	9632.1
57.5°	8937.1	9001.7	9660.0	10262.4	11243.8	11364.3	10926.0	12246.1	13444.0	14250.8	10389.9
60°	7508.7	7643.1	8537.2	9459.2	10983.6	12239.1	12712.4	13251.9	14249.0	15144.8	11310.2
62.5°	4795.1	4847.5	6101.2	7644.9	9811.9	12153.6	14657.6	15024.3	15474.9	16309.5	12728.1
65°	2401.0	2568.7	3303.8	4562.8	7075.6	10709.5	15640.7	18270.5	17718.7	18303.7	15026.1
67.5°	1629.2	1683.3	2055.3	2741.5	4149.0	7587.3	15031.3	21005.1	20842.7	20938.7	17476.0
70°	1201.4	1236.3	1529.7	1941.8	2509.3	4307.9	11966.7	20799.0	21907.9	21872.9	17219.3
72.5°	876.6	894.1	1115.8	1482.5	1859.7	2228.2	7307.9	16802.0	19124.4	20132.0	15059.3
75°	637.4	658.3	775.3	1108.8	1445.9	1390.0	3607.7	12136.1	14584.3	16522.6	12268.8
77.5°	475.0	501.2	555.3	695.0	1012.8	995.3	1559.4	7880.6	9433.0	10791.5	7452.8
80°	342.3	347.5	378.9	445.3	642.6	583.2	742.1	4108.8	4711.3	5161.8	2921.4
82.5°	207.8	213.0	253.2	274.2	398.1	366.7	385.9	1330.6	1906.9	2023.9	1091.4
85°	61.1	64.6	115.2	125.7	165.9	157.2	155.4	541.3	646.1	826.0	429.6
87.5°	0.0	0.0	0.0	0.0	1.7	10.5	19.2	96.0	144.9	200.8	104.8
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°	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4
2.5°	2848.1	2807.9	2786.9	2750.3	2724.1	2697.9	2671.7	2647.2	2636.8	2621.1	2624.5
5°	2898.7	2835.8	2773.0	2701.4	2640.3	2589.6	2544.2	2504.1	2486.6	2470.9	2477.9
7.5°	2975.5	2881.2	2760.7	2629.8	2533.7	2463.9	2416.7	2388.8	2380.1	2367.9	2367.9
10°	3073.3	2931.9	2720.6	2533.7	2418.5	2362.6	2341.7	2339.9	2348.6	2350.4	2346.9
12.5°	3181.6	2980.8	2661.2	2420.2	2322.5	2305.0	2320.7	2350.4	2380.1	2395.8	2392.3
15°	3293.3	3012.2	2559.9	2312.0	2252.6	2275.3	2325.9	2385.3	2442.9	2472.6	2470.9
17.5°	3398.1	3019.2	2429.0	2207.2	2191.5	2249.1	2336.4	2429.0	2507.5	2549.5	2551.2
20°	3515.1	3007.0	2294.5	2112.9	2130.4	2224.7	2339.9	2451.7	2544.2	2586.1	2596.6
22.5°	3621.6	2965.1	2163.5	2023.9	2078.0	2195.0	2312.0	2416.7	2498.8	2539.0	2552.9
25°	3717.7	2884.7	2020.4	1948.8	2037.8	2153.1	2242.1	2315.5	2373.1	2397.5	2416.7
27.5°	3770.1	2764.2	1912.1	1889.4	1999.4	2093.7	2142.6	2165.3	2184.5	2177.5	2191.5
30°	3780.5	2614.1	1817.8	1842.2	1941.8	2011.6	2022.1	1999.4	1966.2	1912.1	1924.3
32.5°	3770.1	2441.2	1739.2	1791.6	1877.2	1919.1	1905.1	1845.7	1765.4	1681.6	1686.8
35°	3773.5	2266.6	1674.6	1735.7	1802.1	1824.8	1789.9	1707.8	1622.2	1545.4	1541.9
37.5°	3812.0	2119.9	1620.5	1681.6	1728.7	1732.2	1693.8	1608.3	1564.6	1507.0	1500.0
40°	3918.5	2011.6	1571.6	1627.5	1657.1	1655.4	1611.7	1550.6	1580.3	1561.1	1555.9
42.5°	4093.1	1945.3	1531.4	1569.8	1590.8	1594.3	1559.4	1520.9	1585.6	1561.1	1552.4
45°	4374.2	1941.8	1503.5	1512.2	1545.4	1569.8	1545.4	1501.7	1526.2	1407.4	1384.7
47.5°	4707.8	2001.1	1482.5	1461.6	1519.2	1562.9	1524.4	1454.6	1403.9	1295.7	1280.0
50°	5109.4	2121.6	1463.3	1407.4	1480.8	1536.7	1498.2	1402.2	1325.4	1267.7	1259.0
52.5°	5586.1	2280.5	1438.9	1346.3	1423.2	1522.7	1498.2	1397.0	1295.7	1243.3	1234.6
55°	6085.5	2463.9	1410.9	1273.0	1358.5	1526.2	1510.5	1360.3	1273.0	1245.0	1238.1
57.5°	6705.4	2683.9	1360.3	1187.4	1300.9	1494.8	1461.6	1339.3	1257.3	1234.6	1227.6
60°	7510.4	3010.5	1264.3	1100.1	1234.6	1438.9	1417.9	1304.4	1215.4	1196.1	1190.9
62.5°	8785.2	3564.0	1147.3	1016.3	1156.0	1321.9	1353.3	1238.1	1163.0	1161.2	1159.5
65°	10863.1	4229.3	1009.3	941.2	1073.9	1225.8	1267.7	1170.0	1108.8	1128.0	1126.3
67.5°	12319.5	4286.9	895.8	862.6	977.9	1121.1	1182.2	1100.1	1033.8	1070.4	1068.7
70°	11284.0	3344.0	798.0	780.6	874.8	1007.6	1089.6	1012.8	946.4	981.4	974.4
72.5°	9516.8	2563.4	705.5	695.0	770.1	888.8	970.9	925.5	855.6	855.6	839.9
75°	7648.4	2114.7	607.7	602.4	653.1	768.3	860.9	784.0	719.4	715.9	705.5
77.5°	4386.5	1386.5	509.9	506.4	522.1	642.6	668.8	653.1	604.2	581.5	574.5
80°	1747.9	721.2	401.6	378.9	394.6	471.5	527.4	501.2	459.3	431.3	415.6
82.5°	677.5	361.5	282.9	248.0	270.7	340.5	382.4	373.7	345.7	282.9	265.4
85°	275.9	176.4	169.4	143.2	157.2	183.4	220.0	190.3	157.2	111.8	106.5
87.5°	73.3	64.6	62.9	38.4	29.7	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)