

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: P641473

Luminaire Tested: GWS-SA5F-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33706.7 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

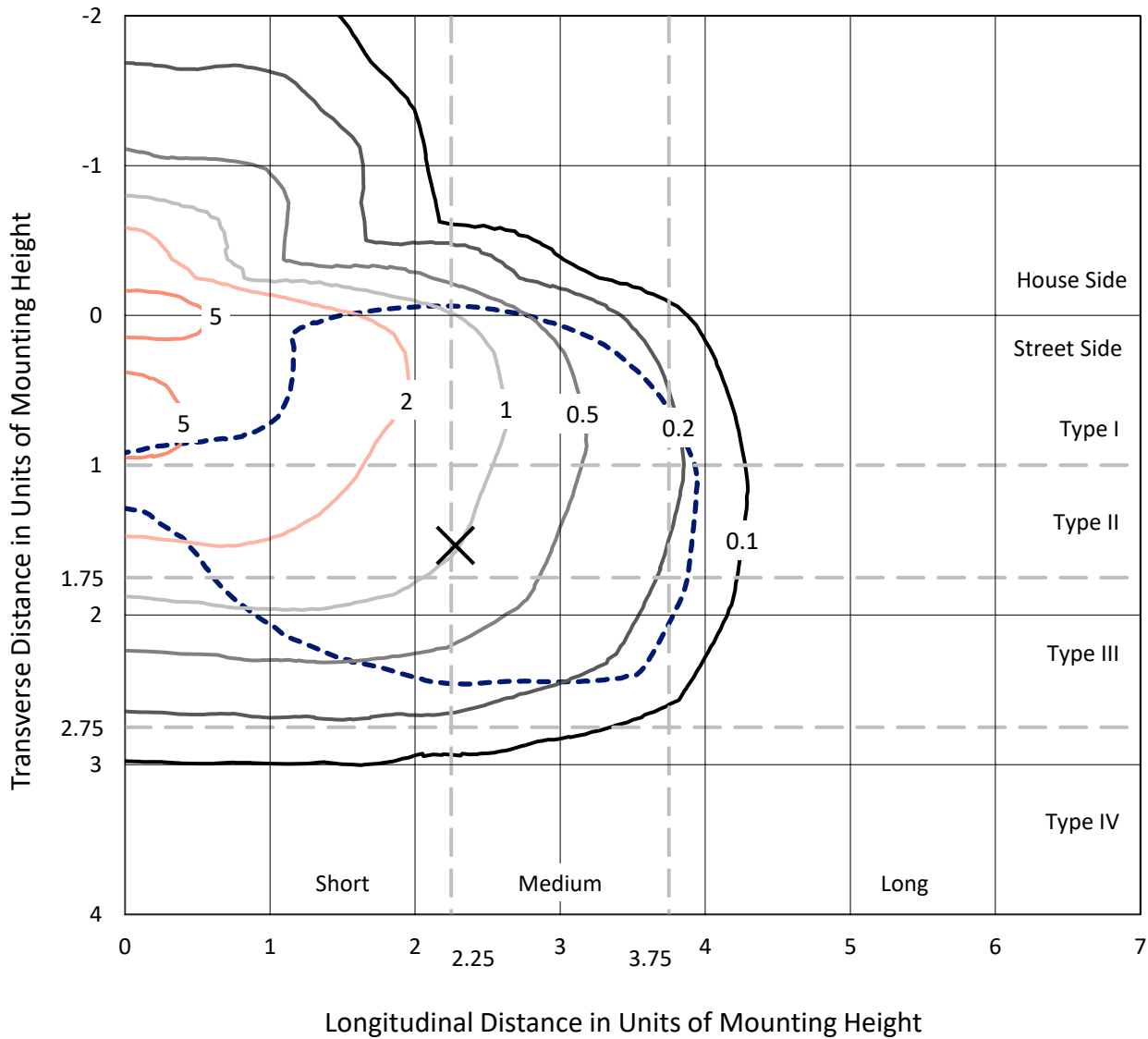
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641473
 CATALOG NUMBER: GWS-SA5F-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

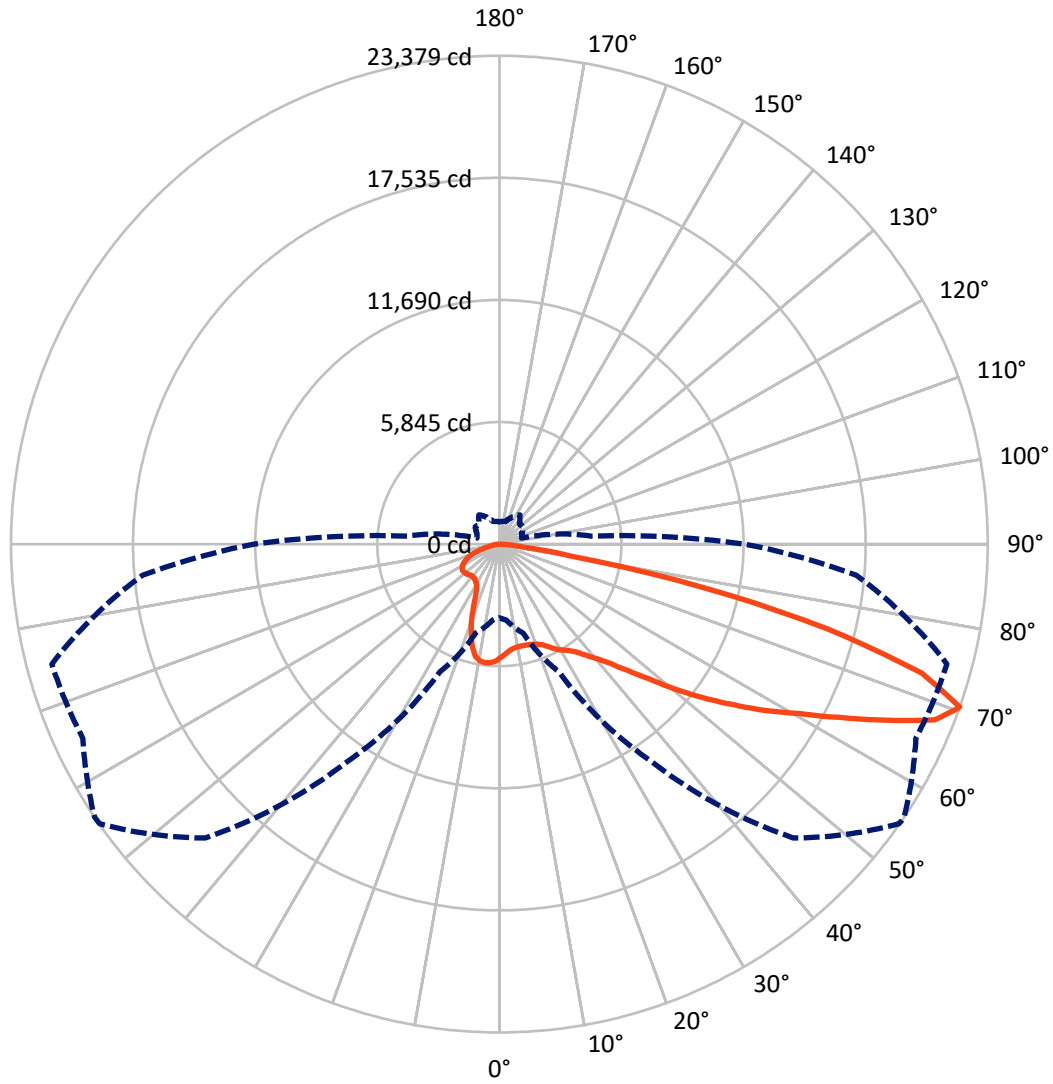
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P641473
CATALOG NUMBER: GWS-SA5F-830-U-T3R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P641473

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6480.2	0.0	6480.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	27226.5	0.0	27226.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	33706.7	0.0	33706.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.5	1.5
10°-20°	1364.2	4.0
20°-30°	2255.4	6.7
30°-40°	3372.1	10.0
40°-50°	5018.2	14.9
50°-60°	7134.4	21.2
60°-70°	8836.2	26.2
70°-80°	4879.1	14.5
80°-90°	343.6	1.0
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°	33706.7	100.0
0°-180°	33706.7	100.0

Coefficient of Utilization



REPORT NUMBER: P641473

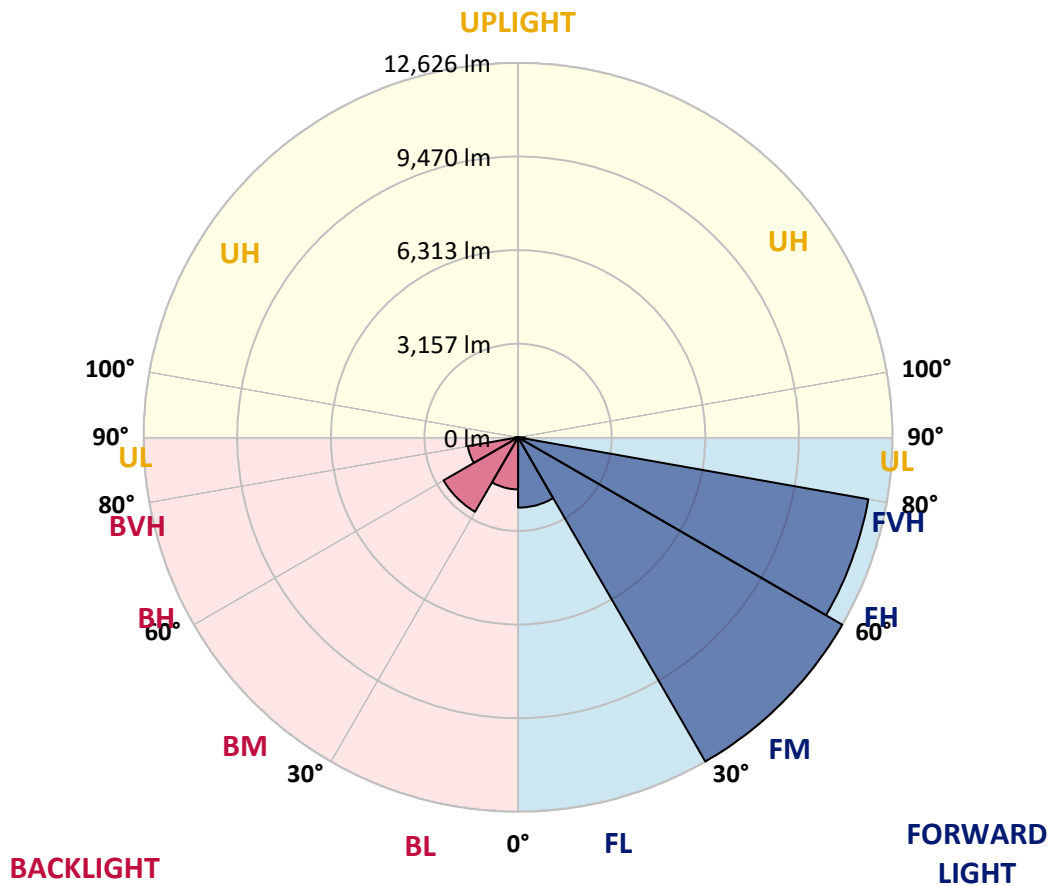
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.9	7.0			
FM (30°-60°)	12626.0	37.5			
FH (60°-80°)	11992.9	35.6			G4/12000
FVH (80°-90°)	238.8	0.7			G3/500
BL (0°-30°)	1754.2	5.2	B3/2500		
BM (30°-60°)	2898.7	8.6	B3/5000		
BH (60°-80°)	1722.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	104.8	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 III Medium





REPORT NUMBER: P641473

CATALOG NUMBER: GWS-SA5F-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8
2.5°	5091.4	5062.8	5096.1	5112.8	5155.5	5217.3	5272.0	5274.4	5302.9	5371.8	5438.4
5°	4860.8	4846.5	4856.1	4906.0	4951.1	5029.6	5112.8	5119.9	5200.7	5336.2	5469.3
7.5°	4682.5	4663.5	4699.2	4763.4	4820.4	4908.3	5017.7	5027.2	5141.3	5345.7	5550.1
10°	4425.8	4411.6	4478.1	4563.7	4687.3	4832.3	4977.3	4989.2	5138.9	5407.5	5692.7
12.5°	4314.1	4314.1	4342.6	4423.5	4558.9	4751.5	4970.1	4989.2	5176.9	5502.6	5875.8
15°	4487.6	4499.5	4475.7	4471.0	4525.7	4708.7	4979.7	5008.2	5248.2	5600.0	6056.4
17.5°	4837.0	4848.9	4787.1	4689.7	4635.0	4749.1	5015.3	5046.2	5324.3	5707.0	6251.3
20°	5326.7	5340.9	5205.5	5055.7	4867.9	4865.6	5084.2	5112.8	5421.8	5823.5	6458.1
22.5°	5899.5	5909.0	5737.9	5500.2	5212.6	5081.9	5203.1	5231.6	5547.7	5985.1	6681.5
25°	6562.7	6591.2	6384.4	6039.8	5649.9	5379.0	5400.4	5433.6	5773.5	6201.4	6945.4
27.5°	7271.0	7306.7	7069.0	6688.7	6151.5	5707.0	5654.7	5683.2	6013.6	6334.5	7085.6
30°	7996.0	8022.1	7784.4	7349.5	6691.0	6077.8	5868.6	5885.3	6118.2	6398.7	7228.2
32.5°	8801.8	8780.4	8552.2	8050.6	7313.8	6522.3	6068.3	6063.5	6234.7	6527.0	7432.6
35°	9557.6	9588.5	9346.1	8792.2	7998.4	7071.3	6367.8	6348.8	6481.9	6736.2	7720.3
37.5°	10472.7	10463.2	10173.2	9574.3	8685.3	7596.7	6788.5	6755.2	6802.8	7061.8	8122.0
40°	11126.4	11192.9	11005.2	10446.6	9488.7	8243.2	7280.5	7206.8	7218.7	7463.5	8659.1
42.5°	11661.2	11723.0	11742.0	11385.5	10408.6	9041.8	7893.8	7820.1	7827.2	8174.2	9319.9
45°	12072.4	12155.6	12424.2	12319.6	11444.9	9964.1	8723.3	8647.3	8652.0	9037.1	10118.6
47.5°	12241.2	12331.5	12875.8	13125.4	12545.4	11067.0	9754.9	9643.2	9659.8	10085.3	11031.3
50°	12186.5	12307.7	13044.6	13745.8	13467.7	12188.9	10988.5	10910.1	10845.9	11463.9	12022.5
52.5°	11715.9	11849.0	13027.9	14140.3	14221.1	13249.0	12262.6	12217.4	12203.1	12928.1	13130.1
55°	10330.1	10553.5	12455.1	14244.9	14810.6	14247.3	13643.5	13567.5	13641.2	14496.9	14249.7
57.5°	9562.4	9728.8	11333.2	14128.4	15293.1	15198.1	15022.2	15029.3	15112.5	16201.1	15606.9
60°	9125.0	9319.9	10710.4	13809.9	15756.6	16353.2	16465.0	16465.0	16614.7	18038.5	16985.5
62.5°	8545.0	8742.3	10128.1	13196.7	16184.5	17712.8	18278.5	18271.4	18330.8	20008.9	18333.2
65°	7368.5	7551.5	8958.6	12229.3	16393.6	19210.3	20339.3	20317.9	20199.1	21763.1	19224.6
67.5°	5350.5	5524.0	6862.2	10389.5	15640.2	20417.8	22461.9	22471.4	21760.7	22868.4	19272.1
70°	3527.4	3646.2	4411.6	6748.1	12718.9	19897.2	23350.9	23379.4	22000.8	22179.1	17151.9
72.5°	2201.0	2284.2	2754.9	4024.1	7515.8	15749.5	21069.1	21147.5	19792.6	19490.8	14092.8
75°	1461.8	1518.9	1832.6	2346.0	3477.4	8523.7	16015.7	16267.7	15863.6	15278.9	9819.1
77.5°	879.5	927.0	1167.1	1490.3	1540.2	3330.1	9348.4	9999.7	10056.8	7977.0	4112.1
80°	401.7	456.4	644.1	850.9	820.0	1159.9	3296.8	3448.9	4069.3	2533.8	1297.8
82.5°	237.7	261.5	427.8	423.1	349.4	563.3	1186.1	1217.0	1034.0	927.0	553.8
85°	95.1	111.7	180.6	159.3	128.4	183.0	446.9	468.3	449.2	404.1	204.4
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	40.4	42.8	61.8	111.7	61.8
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°	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8	5440.8
2.5°	5481.2	5466.9	5538.2	5592.9	5616.7	5640.4	5619.0	5611.9	5611.9	5564.4	5540.6
5°	5540.6	5547.7	5645.2	5690.4	5690.4	5671.3	5614.3	5573.9	5559.6	5497.8	5481.2
7.5°	5652.3	5683.2	5773.5	5771.2	5704.6	5600.0	5457.4	5348.1	5248.2	5205.5	5179.3
10°	5835.3	5875.8	5937.6	5837.7	5652.3	5376.6	5074.7	4837.0	4694.4	4580.3	4580.3
12.5°	6044.5	6082.5	6070.7	5840.1	5457.4	4941.6	4506.6	4233.3	4033.6	3929.1	3929.1
15°	6253.7	6284.6	6156.2	5730.8	5051.0	4364.0	3888.6	3560.6	3387.1	3289.7	3289.7
17.5°	6465.2	6462.9	6191.9	5478.8	4520.9	3724.6	3258.8	3004.4	2945.0	2928.4	2926.0
20°	6669.6	6615.0	6146.7	5058.1	3905.3	3080.5	2785.8	2802.4	2890.3	2928.4	2933.1
22.5°	6900.2	6764.7	6013.6	4520.9	3206.5	2633.6	2652.6	2790.5	2918.9	2975.9	2983.0
25°	7135.5	6893.1	5790.2	3891.0	2621.7	2469.6	2617.0	2771.5	2916.5	2990.2	2997.3
27.5°	7230.6	6893.1	5409.9	3161.3	2310.4	2400.7	2562.3	2712.1	2864.2	2949.8	2966.4
30°	7309.0	6833.7	4877.4	2502.9	2182.0	2334.1	2474.4	2612.2	2762.0	2866.6	2885.6
32.5°	7418.4	6781.4	4233.3	2103.6	2122.6	2270.0	2367.4	2483.9	2619.4	2688.3	2681.2
35°	7546.7	6700.5	3456.0	1913.4	2072.7	2215.3	2284.2	2353.2	2291.4	2289.0	2296.1
37.5°	7729.8	6629.2	2778.6	1827.9	2039.4	2177.3	2234.3	2086.9	2001.4	1965.7	1951.5
40°	7993.6	6600.7	2191.5	1777.9	2034.6	2174.9	2134.5	1906.3	1789.8	1666.2	1663.8
42.5°	8326.4	6579.3	1811.2	1754.2	2051.3	2229.6	1996.6	1787.4	1547.4	1492.7	1488.0
45°	8754.2	6546.0	1621.1	1749.4	2091.7	2272.3	1982.4	1623.4	1459.4	1435.7	1435.7
47.5°	9270.0	6493.8	1535.5	1749.4	2136.9	2253.3	1939.6	1587.8	1419.0	1445.2	1461.8
50°	9861.9	6427.2	1490.3	1744.7	2182.0	2253.3	1849.2	1580.7	1409.5	1545.0	1599.7
52.5°	10494.1	6351.1	1459.4	1725.6	2212.9	2255.7	1854.0	1604.4	1419.0	1568.8	1613.9
55°	11192.9	6339.3	1416.6	1685.2	2222.4	2193.9	1865.9	1656.7	1433.3	1421.4	1423.8
57.5°	12074.8	6481.9	1385.7	1625.8	2184.4	2067.9	1889.7	1694.7	1416.6	1419.0	1435.7
60°	12997.0	6750.5	1411.9	1568.8	2106.0	1949.1	1906.3	1675.7	1335.8	1297.8	1302.6
62.5°	13781.4	6954.9	1433.3	1542.6	1991.9	1844.5	1889.7	1632.9	1290.7	1281.2	1302.6
65°	14109.4	6786.1	1381.0	1488.0	1825.5	1716.1	1854.0	1578.3	1252.6	1217.0	1219.4
67.5°	13745.8	5994.6	1278.8	1366.7	1637.7	1552.1	1797.0	1507.0	1200.3	1157.6	1148.1
70°	11742.0	4404.4	1102.9	1174.2	1409.5	1359.6	1709.0	1414.3	1117.2	1086.3	1064.9
72.5°	9462.5	3118.5	915.1	934.1	1105.3	1145.7	1556.9	1297.8	1022.1	934.1	903.2
75°	6586.5	1958.6	763.0	744.0	798.6	874.7	1214.6	1076.7	881.8	789.1	760.6
77.5°	2833.3	1005.4	596.6	587.1	532.4	606.1	931.8	898.5	739.2	632.3	615.6
80°	948.4	582.3	430.2	413.6	354.2	425.5	656.0	717.8	580.0	468.3	439.7
82.5°	475.4	337.5	273.3	247.2	237.7	268.6	387.4	446.9	401.7	323.3	273.3
85°	232.9	192.5	149.7	147.4	123.6	116.5	161.6	190.2	180.6	133.1	126.0
87.5°	85.6	76.1	47.5	38.0	23.8	16.6	9.5	9.5	7.1	7.1	7.1
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)