

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: P640805

Luminaire Tested: GWS-SA5E-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640805
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-SA5E-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39156.5 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

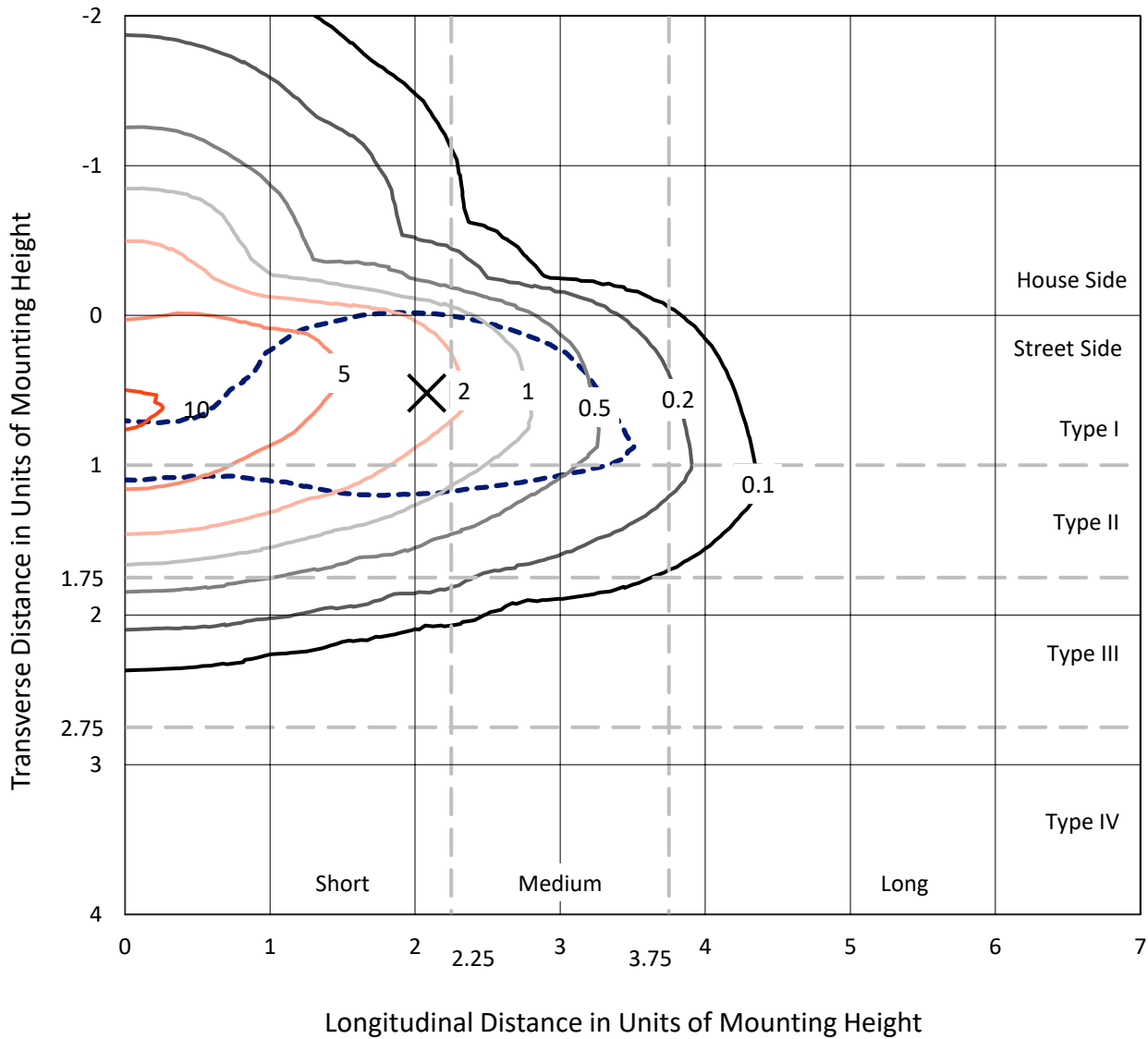
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

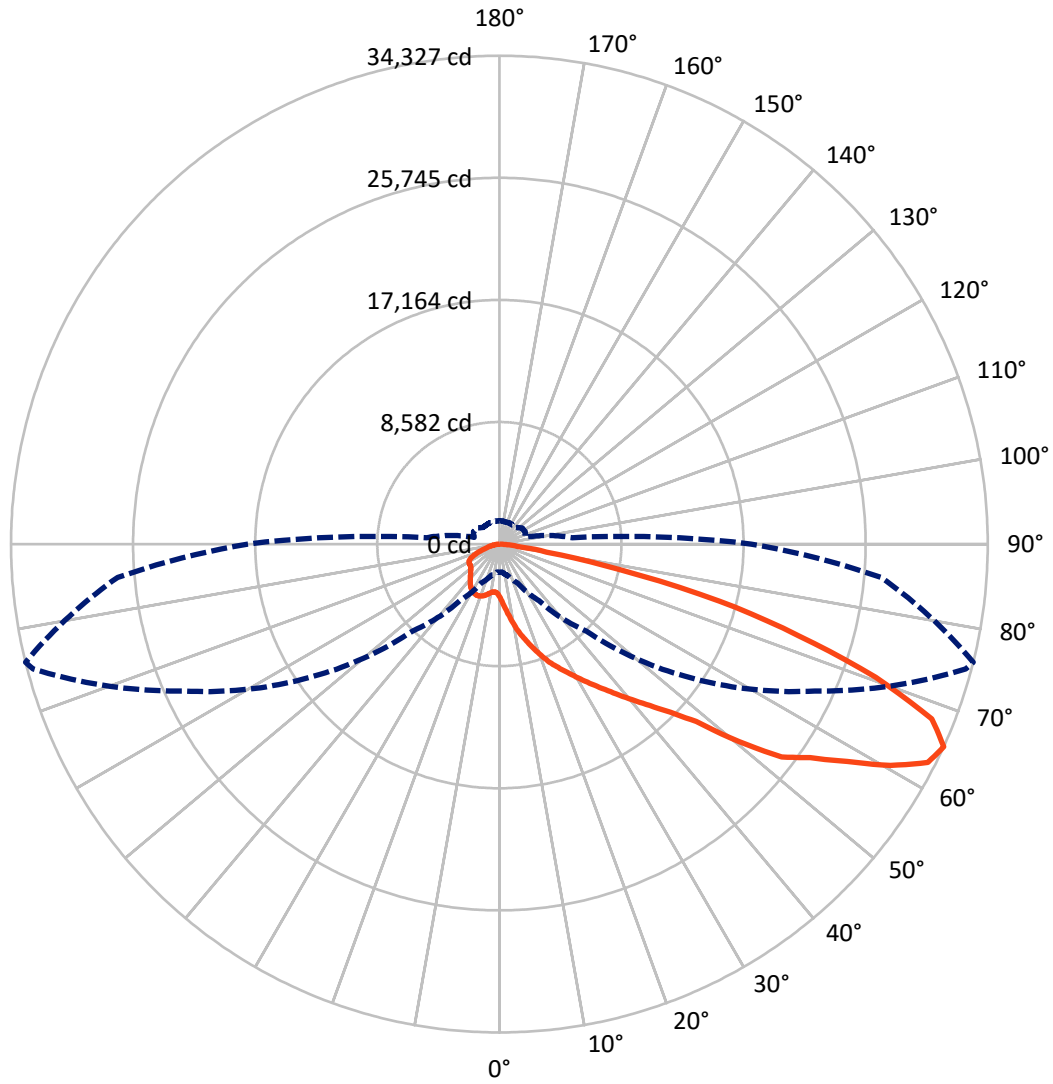
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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	6545.1	0.0	6545.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	32611.5	0.0	32611.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	39156.5	0.0	39156.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.5	1.1
10°-20°	1677.9	4.3
20°-30°	3270.0	8.4
30°-40°	5468.9	14.0
40°-50°	7830.5	20.0
50°-60°	9270.2	23.7
60°-70°	7708.2	19.7
70°-80°	3154.4	8.1
80°-90°	335.8	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°	39156.5	100.0
0°-180°	39156.5	100.0

Coefficient of Utilization

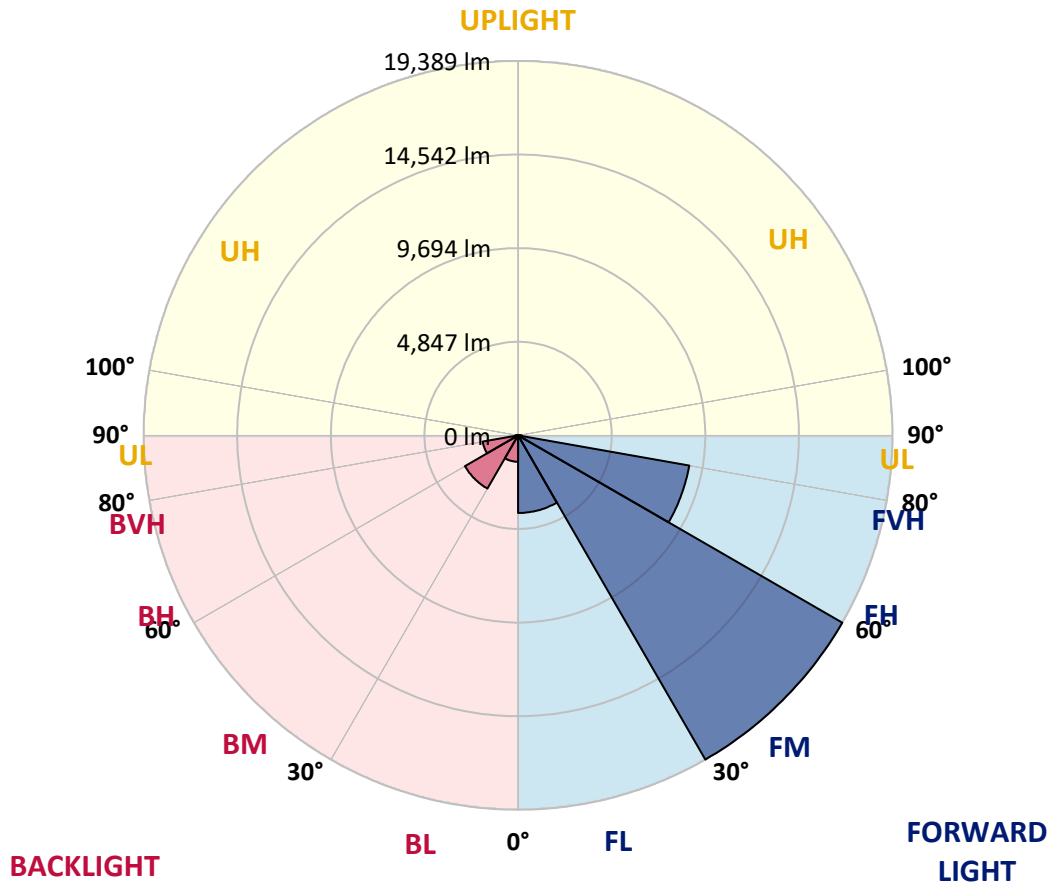


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4019.3	10.3			
FM (30°-60°)	19388.8	49.5			
FH (60°-80°)	9003.1	23.0			G4/12000
FVH (80°-90°)	200.3	0.5			G2/225
BL (0°-30°)	1369.2	3.5	B3/2500		
BM (30°-60°)	3180.8	8.1	B3/5000		
BH (60°-80°)	1859.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	135.5	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°	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0
2.5°	5197.2	5216.5	5153.2	5131.2	4982.5	4781.6	4613.6	4360.4	4126.4	4090.6	3881.4
5°	6601.1	6518.5	6447.0	6400.2	6193.7	5965.2	5610.1	5133.9	4635.7	4575.1	4123.6
7.5°	7435.2	7421.5	7333.4	7305.8	7146.2	6917.7	6551.6	5959.7	5235.8	5136.7	4451.2
10°	8104.1	8095.9	8051.8	8076.6	7930.7	7707.7	7352.6	6741.5	5893.7	5794.6	4817.3
12.5°	8687.7	8701.5	8693.2	8784.1	8709.8	8536.3	8167.5	7495.8	6551.6	6444.2	5263.3
15°	9114.4	9125.4	9166.7	9364.9	9406.2	9370.4	8996.0	8236.3	7201.2	7047.1	5723.0
17.5°	9235.5	9257.6	9356.7	9676.0	9898.9	10047.6	9769.6	8990.5	7839.9	7672.0	6191.0
20°	9397.9	9422.7	9521.8	9854.9	10182.5	10521.1	10471.5	9755.8	8484.0	8346.4	6664.4
22.5°	10149.4	10130.2	10086.1	10245.8	10479.8	10901.0	11024.8	10490.8	9150.2	9018.1	7187.5
25°	11597.4	11561.6	11280.8	11134.9	11057.9	11313.9	11534.1	11159.7	9799.8	9601.6	7674.7
27.5°	13194.0	13174.7	12816.9	12470.0	11996.6	11886.4	12015.8	11743.3	10430.2	10229.3	8098.6
30°	14705.3	14647.5	14273.1	13838.2	13205.0	12731.5	12541.6	12315.9	11121.2	10912.0	8594.1
32.5°	16056.9	15982.6	15542.1	15060.4	14397.0	13838.2	13271.1	12924.2	11903.0	11660.7	9100.6
35°	17166.2	17091.9	16640.5	16128.5	15399.0	14986.1	14209.8	13584.9	12698.5	12453.5	9698.0
37.5°	18025.1	17956.3	17485.6	16981.8	16345.9	16018.3	15343.9	14328.1	13615.2	13359.2	10331.1
40°	18506.8	18457.3	18080.2	17681.0	17147.0	16863.4	16560.6	15266.8	14642.0	14386.0	11077.1
42.5°	18652.7	18619.7	18355.4	18149.0	17788.4	17573.7	17747.1	16370.7	15737.6	15514.6	11916.7
45°	18286.6	18286.6	18209.5	18314.2	18330.7	18327.9	18936.3	17617.7	17083.7	16838.7	13100.4
47.5°	17350.7	17411.2	17524.1	18038.9	18581.2	19035.4	20326.4	19280.4	18815.2	18614.2	14776.8
50°	15638.5	15803.6	16189.0	17193.8	18347.2	19503.3	21642.2	21738.6	22181.8	21826.7	17243.3
52.5°	13130.7	13105.9	14088.7	15520.1	17279.1	19522.6	22366.2	23907.8	25099.7	24854.7	19076.7
55°	10435.7	10394.4	11311.1	13284.8	15641.2	18784.9	22801.2	24901.5	26718.3	26498.1	20725.6
57.5°	7991.3	7939.0	8753.8	10534.8	13328.9	17218.6	22718.6	26085.2	28945.3	28832.5	22966.3
60°	5500.0	5436.7	6199.2	7757.3	10592.6	14823.6	21804.7	26693.6	31552.2	31590.7	25364.0
62.5°	3303.3	3267.5	3820.8	5029.3	7619.7	11856.2	19665.8	26324.7	33627.8	33801.2	26905.5
65°	1993.0	1968.2	2293.1	3000.5	4833.9	8651.9	16367.9	24439.1	33927.8	34327.0	26941.3
67.5°	1450.7	1453.5	1547.1	1827.8	2818.8	5588.1	12282.8	21058.7	32364.3	32777.2	25242.9
70°	1260.8	1266.3	1315.8	1379.1	1704.0	3198.7	7985.8	16624.0	27742.4	28061.7	21171.5
72.5°	1120.4	1120.4	1153.4	1186.4	1332.3	1949.0	4277.8	11619.4	21895.5	21980.8	16158.7
75°	985.5	977.2	993.7	1010.3	1156.2	1362.6	2081.1	8095.9	16172.5	15974.3	10444.0
77.5°	784.5	776.3	779.0	795.5	927.7	974.5	1054.3	5056.8	9114.4	8602.4	4613.6
80°	558.8	553.3	583.6	624.9	685.4	597.4	660.7	2447.2	3614.4	3363.9	1789.3
82.5°	333.1	344.1	390.9	423.9	473.5	374.4	426.7	817.6	1280.0	1247.0	726.7
85°	46.8	49.5	140.4	162.4	203.7	145.9	225.7	368.9	512.0	547.8	256.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	19.3	66.1	145.9	148.6	63.3
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°	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0	3708.0
2.5°	3774.0	3644.7	3460.2	3306.1	3176.7	3072.1	2984.0	2917.9	2898.7	2871.1	2871.1
5°	3911.7	3677.7	3347.4	3113.4	2978.5	2898.7	2843.6	2816.1	2802.3	2785.8	2777.5
7.5°	4101.6	3774.0	3328.1	3091.4	2986.8	2937.2	2901.4	2884.9	2873.9	2857.4	2857.4
10°	4363.1	3917.2	3388.7	3168.4	3085.9	3036.3	2995.0	2967.5	2942.7	2917.9	2912.4
12.5°	4646.7	4104.4	3498.8	3273.0	3185.0	3124.4	3066.6	3025.3	2995.0	2964.7	2956.5
15°	4960.5	4297.1	3617.1	3374.9	3264.8	3182.2	3113.4	3050.1	3008.8	2964.7	2959.2
17.5°	5268.8	4492.5	3716.2	3443.7	3303.3	3201.5	3102.4	3019.8	2967.5	2917.9	2904.2
20°	5637.7	4688.0	3785.1	3463.0	3295.1	3160.2	3041.8	2937.2	2879.4	2821.6	2813.3
22.5°	5976.3	4869.6	3818.1	3435.5	3231.7	3072.1	2934.4	2821.6	2758.3	2700.5	2689.5
25°	6303.8	5029.3	3804.3	3369.4	3135.4	2951.0	2807.8	2695.0	2634.4	2573.8	2557.3
27.5°	6620.4	5136.7	3749.3	3267.5	3014.3	2816.1	2678.4	2576.6	2524.3	2472.0	2450.0
30°	6931.5	5235.8	3663.9	3135.4	2860.1	2675.7	2562.8	2491.3	2439.0	2383.9	2367.4
32.5°	7245.3	5307.3	3534.6	2981.2	2703.2	2551.8	2483.0	2430.7	2375.6	2320.6	2304.1
35°	7561.8	5337.6	3377.6	2805.1	2571.1	2472.0	2447.2	2386.6	2312.3	2246.3	2224.2
37.5°	7939.0	5365.1	3182.2	2631.6	2455.5	2433.4	2427.9	2337.1	2249.0	2158.2	2133.4
40°	8393.2	5400.9	2981.2	2474.7	2361.9	2419.7	2397.7	2273.8	2097.6	2009.5	1982.0
42.5°	8949.2	5467.0	2772.0	2331.6	2293.1	2367.4	2342.6	2119.6	2001.3	1951.7	1937.9
45°	9766.8	5709.2	2562.8	2218.7	2240.8	2293.1	2254.5	2028.8	1982.0	1949.0	1932.4
47.5°	11223.0	6080.9	2381.1	2133.4	2199.5	2227.0	2078.3	2004.0	1968.2	1924.2	1904.9
50°	12737.0	6243.3	2235.2	2081.1	2152.7	2166.4	1982.0	1971.0	1946.2	1899.4	1880.1
52.5°	13761.1	6221.3	2147.2	2061.8	2114.1	2061.8	1937.9	1935.2	1918.7	1863.6	1841.6
55°	14917.2	6259.8	2108.6	2067.3	2097.6	1885.6	1882.9	1891.2	1882.9	1822.3	1811.3
57.5°	16478.1	6378.2	2089.3	2086.6	2086.6	1800.3	1830.6	1841.6	1825.1	1797.6	1789.3
60°	17978.3	6386.4	2053.6	2108.6	2078.3	1748.0	1770.0	1781.0	1761.8	1756.3	1753.5
62.5°	18542.6	5990.0	1973.7	2092.1	2045.3	1690.2	1706.7	1712.2	1693.0	1706.7	1704.0
65°	17703.0	5147.7	1841.6	2012.3	1943.5	1637.9	1626.9	1640.6	1607.6	1643.4	1646.2
67.5°	15718.3	4090.6	1640.6	1860.9	1800.3	1580.1	1558.1	1558.1	1503.0	1558.1	1555.3
70°	12673.7	2890.4	1346.1	1618.6	1643.4	1511.3	1500.3	1436.9	1348.9	1431.4	1423.2
72.5°	9607.2	2075.6	1059.8	1280.0	1414.9	1414.9	1417.7	1310.3	1208.5	1247.0	1214.0
75°	6086.4	1461.7	847.9	980.0	1109.4	1241.5	1304.8	1106.6	1015.8	999.3	982.7
77.5°	2741.8	960.7	660.7	751.5	787.3	980.0	1191.9	952.5	828.6	792.8	781.8
80°	1147.9	597.4	470.7	531.3	484.5	823.1	1051.6	740.5	608.4	558.8	523.0
82.5°	503.8	355.1	300.1	286.3	302.8	611.1	784.5	492.7	379.9	514.8	520.3
85°	212.0	187.2	154.2	140.4	123.9	234.0	368.9	192.7	236.7	134.9	110.1
87.5°	49.5	55.1	41.3	27.5	16.5	2.8	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)