

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: P640750

Luminaire Tested: GWS-SA5E-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640750
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-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38279.3 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

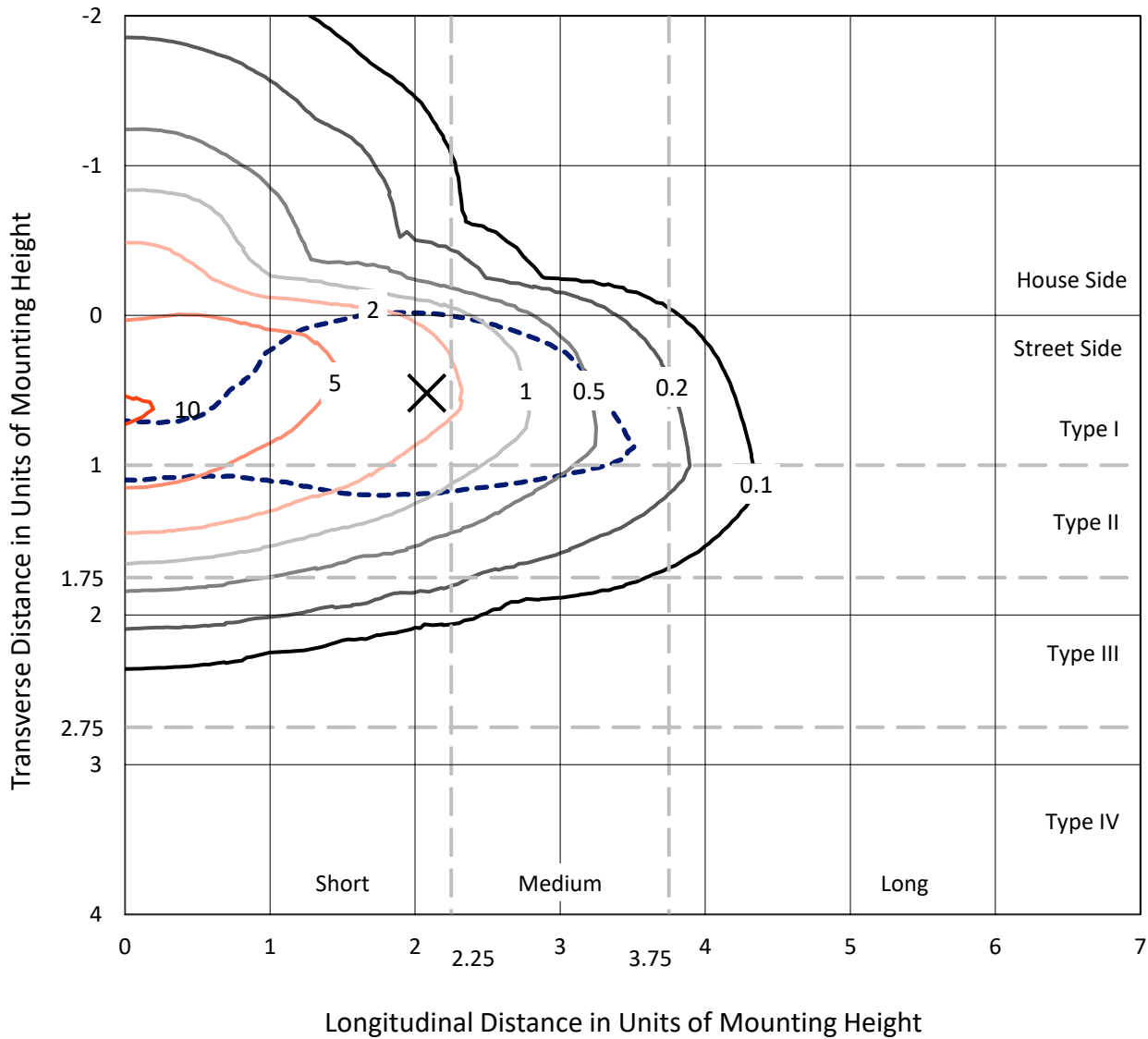
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

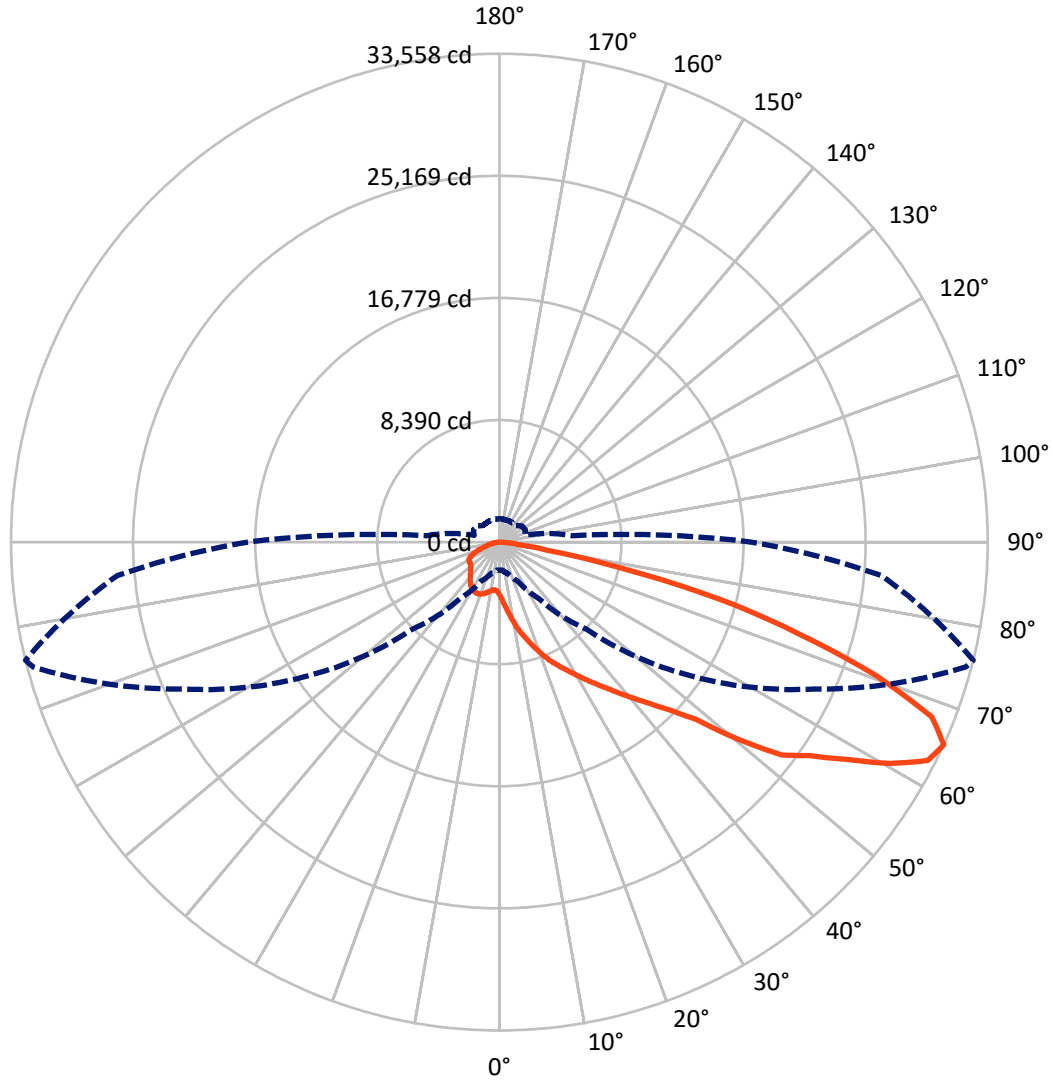
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA5E-740-U-T2R-W

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	6398.4	0.0	6398.4
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	31880.9	0.0	31880.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	38279.3	0.0	38279.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	1.1
10°-20°	1640.3	4.3
20°-30°	3196.8	8.4
30°-40°	5346.4	14.0
40°-50°	7655.0	20.0
50°-60°	9062.5	23.7
60°-70°	7535.5	19.7
70°-80°	3083.7	8.1
80°-90°	328.3	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°	38279.3	100.0
0°-180°	38279.3	100.0

Coefficient of Utilization



REPORT NUMBER: P640750

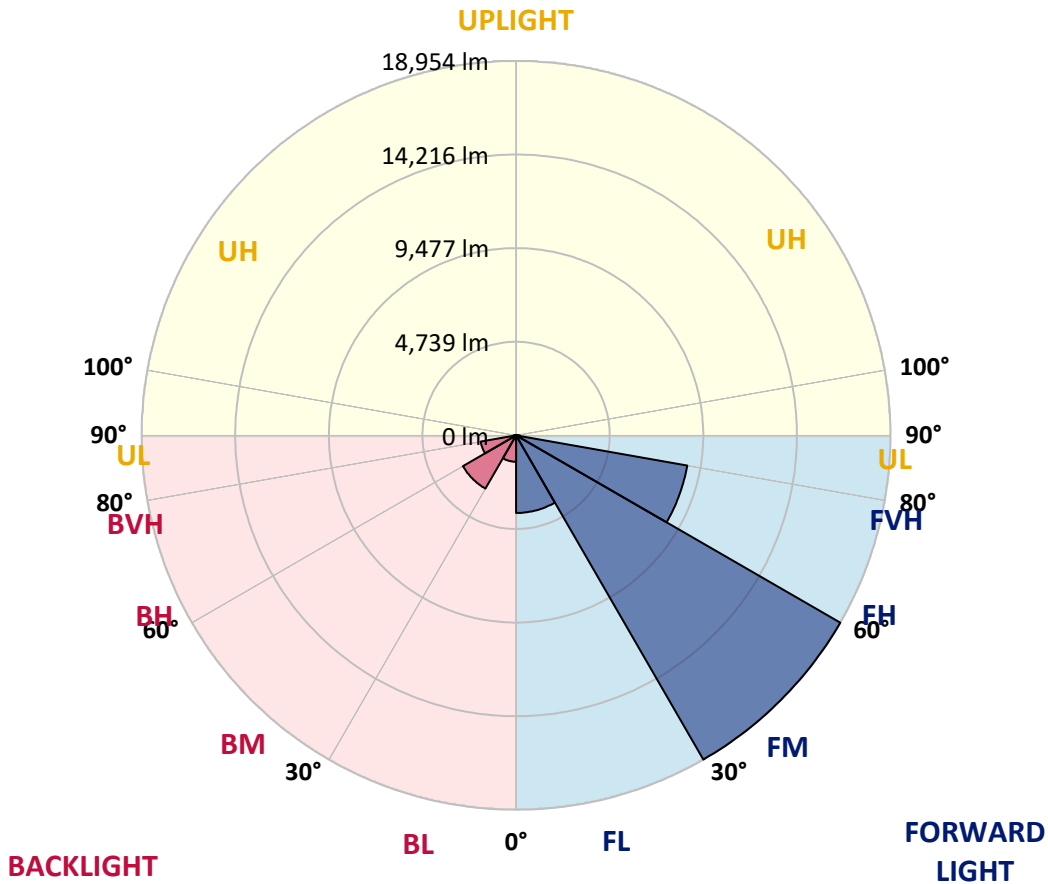
CATALOG NUMBER: GWS-SA5E-740-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3929.2	10.3			
FM (30°-60°)	18954.5	49.5			
FH (60°-80°)	8801.4	23.0			G4/12000
FVH (80°-90°)	195.8	0.5			G2/225
BL (0°-30°)	1338.5	3.5	B3/2500		
BM (30°-60°)	3109.5	8.1	B3/5000		
BH (60°-80°)	1817.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	132.5	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





REPORT NUMBER: P640750

CATALOG NUMBER: GWS-SA5E-740-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9
2.5°	5080.8	5099.6	5037.7	5016.2	4870.9	4674.4	4510.3	4262.7	4034.0	3999.0	3794.4
5°	6453.3	6372.5	6302.6	6256.8	6055.0	5831.6	5484.5	5018.9	4531.8	4472.6	4031.3
7.5°	7268.7	7255.2	7169.1	7142.2	6986.1	6762.7	6404.8	5826.2	5118.5	5021.6	4351.5
10°	7922.6	7914.5	7871.5	7895.7	7753.1	7535.1	7187.9	6590.5	5761.6	5664.8	4709.4
12.5°	8493.1	8506.6	8498.5	8587.3	8514.6	8345.1	7984.5	7327.9	6404.8	6299.9	5145.4
15°	8910.2	8921.0	8961.4	9155.1	9195.5	9160.5	8794.5	8051.8	7039.9	6889.2	5594.8
17.5°	9028.6	9050.2	9147.0	9459.2	9677.2	9822.5	9550.7	8789.1	7664.2	7500.1	6052.3
20°	9187.4	9211.6	9308.5	9634.1	9954.4	10285.4	10236.9	9537.2	8294.0	8159.4	6515.1
22.5°	9922.1	9903.2	9860.2	10016.3	10245.0	10656.7	10777.8	10255.8	8945.2	8816.0	7026.5
25°	11337.6	11302.6	11028.1	10885.5	10810.1	11060.4	11275.7	10909.7	9580.3	9386.5	7502.8
27.5°	12898.4	12879.6	12529.7	12190.7	11727.8	11620.2	11746.6	11480.2	10196.6	10000.1	7917.2
30°	14375.8	14319.3	13953.3	13528.1	12909.2	12446.3	12260.6	12040.0	10872.0	10667.5	8401.6
32.5°	15697.2	15624.5	15193.9	14723.0	14074.4	13528.1	12973.8	12634.7	11636.3	11399.5	8896.8
35°	16781.7	16709.0	16267.7	15767.1	15054.0	14650.3	13891.4	13280.6	12414.0	12174.5	9480.7
37.5°	17621.3	17554.0	17093.9	16601.4	15979.7	15659.5	15000.2	14007.2	13310.2	13059.9	10099.7
40°	18092.2	18043.8	17675.1	17284.9	16762.8	16485.7	16189.6	14924.8	14313.9	14063.7	10829.0
42.5°	18234.9	18202.6	17944.2	17742.4	17389.9	17180.0	17349.5	16004.0	15385.0	15167.0	11649.8
45°	17877.0	17877.0	17801.6	17903.9	17920.0	17917.3	18512.1	17223.0	16701.0	16461.4	12806.9
47.5°	16962.0	17021.2	17131.5	17634.8	18164.9	18608.9	19871.1	18848.4	18393.7	18197.2	14445.8
50°	15288.1	15449.6	15826.3	16808.6	17936.2	19066.4	21157.4	21251.6	21684.9	21337.7	16857.0
52.5°	12836.5	12812.3	13773.0	15172.4	16892.0	19085.3	21865.2	23372.2	24537.4	24297.9	18649.3
55°	10202.0	10161.6	11057.7	12987.2	15290.8	18364.0	22290.4	24343.7	26119.8	25904.5	20261.3
57.5°	7812.3	7761.1	8557.7	10298.8	13030.3	16832.8	22209.6	25500.8	28296.9	28186.6	22451.8
60°	5376.8	5314.9	6060.4	7583.5	10355.3	14491.6	21316.2	26095.6	30845.4	30883.0	24795.8
62.5°	3229.3	3194.3	3735.2	4916.6	7449.0	11590.6	19225.2	25735.0	32874.4	33044.0	26302.8
65°	1948.4	1924.1	2241.7	2933.3	4725.6	8458.1	16001.3	23891.6	33167.8	33558.0	26337.8
67.5°	1418.2	1420.9	1512.4	1786.9	2755.7	5462.9	12007.7	20586.9	31639.2	32042.9	24677.4
70°	1232.5	1237.9	1286.3	1348.2	1665.8	3127.1	7806.9	16251.5	27120.9	27433.0	20697.2
72.5°	1095.3	1095.3	1127.6	1159.9	1302.5	1905.3	4182.0	11359.1	21405.0	21488.4	15796.7
75°	963.4	955.3	971.5	987.6	1130.3	1332.1	2034.5	7914.5	15810.2	15616.4	10210.0
77.5°	767.0	758.9	761.6	777.7	906.9	952.6	1030.7	4943.5	8910.2	8409.7	4510.3
80°	546.3	540.9	570.5	610.9	670.1	584.0	645.9	2392.4	3533.4	3288.5	1749.2
82.5°	325.6	336.4	382.1	414.4	462.9	366.0	417.1	799.3	1251.4	1219.1	710.4
85°	45.7	48.4	137.2	158.8	199.1	142.6	220.7	360.6	500.5	535.5	250.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.8	64.6	142.6	145.3	61.9
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°	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9
2.5°	3689.5	3563.0	3382.7	3232.0	3105.5	3003.3	2917.1	2852.6	2833.7	2806.8	2806.8
5°	3824.0	3595.3	3272.4	3043.6	2911.8	2833.7	2779.9	2753.0	2739.5	2723.4	2715.3
7.5°	4009.7	3689.5	3253.5	3022.1	2919.8	2871.4	2836.4	2820.3	2809.5	2793.4	2793.4
10°	4265.4	3829.4	3312.7	3097.5	3016.7	2968.3	2927.9	2901.0	2876.8	2852.6	2847.2
12.5°	4542.6	4012.4	3420.4	3199.7	3113.6	3054.4	2997.9	2957.5	2927.9	2898.3	2890.2
15°	4849.4	4200.8	3536.1	3299.3	3191.6	3110.9	3043.6	2981.7	2941.4	2898.3	2892.9
17.5°	5150.8	4391.9	3633.0	3366.6	3229.3	3129.7	3032.9	2952.1	2901.0	2852.6	2839.1
20°	5511.4	4582.9	3700.3	3385.4	3221.2	3089.4	2973.7	2871.4	2814.9	2758.4	2750.3
22.5°	5842.4	4760.6	3732.6	3358.5	3159.3	3003.3	2868.7	2758.4	2696.5	2640.0	2629.2
25°	6162.6	4916.6	3719.1	3293.9	3065.2	2884.9	2744.9	2634.6	2575.4	2516.2	2500.0
27.5°	6472.1	5021.6	3665.3	3194.3	2946.8	2753.0	2618.4	2518.9	2467.7	2416.6	2395.1
30°	6776.2	5118.5	3581.9	3065.2	2796.1	2615.7	2505.4	2435.4	2384.3	2330.5	2314.3
32.5°	7083.0	5188.4	3455.4	2914.5	2642.7	2494.6	2427.4	2376.2	2322.4	2268.6	2252.4
35°	7392.4	5218.0	3302.0	2742.2	2513.5	2416.6	2392.4	2333.2	2260.5	2195.9	2174.4
37.5°	7761.1	5244.9	3110.9	2572.7	2400.5	2378.9	2373.5	2284.7	2198.6	2109.8	2085.6
40°	8205.2	5279.9	2914.5	2419.3	2309.0	2365.5	2343.9	2222.8	2050.6	1964.5	1937.6
42.5°	8748.8	5344.5	2709.9	2279.4	2241.7	2314.3	2290.1	2072.1	1956.4	1908.0	1894.5
45°	9548.0	5581.3	2505.4	2169.0	2190.6	2241.7	2204.0	1983.3	1937.6	1905.3	1889.2
47.5°	10971.6	5944.6	2327.8	2085.6	2150.2	2177.1	2031.8	1959.1	1924.1	1881.1	1862.2
50°	12451.7	6103.4	2185.2	2034.5	2104.4	2117.9	1937.6	1926.8	1902.6	1856.9	1838.0
52.5°	13452.8	6081.9	2099.1	2015.6	2066.8	2015.6	1894.5	1891.8	1875.7	1821.9	1800.3
55°	14583.1	6119.6	2061.4	2021.0	2050.6	1843.4	1840.7	1848.8	1840.7	1781.5	1770.7
57.5°	16108.9	6235.3	2042.5	2039.9	2039.9	1760.0	1789.6	1800.3	1784.2	1757.3	1749.2
60°	17575.6	6243.3	2007.6	2061.4	2031.8	1708.8	1730.4	1741.1	1722.3	1716.9	1714.2
62.5°	18127.2	5855.8	1929.5	2045.2	1999.5	1652.3	1668.5	1673.9	1655.0	1668.5	1665.8
65°	17306.4	5032.4	1800.3	1967.2	1899.9	1601.2	1590.4	1603.9	1571.6	1606.6	1609.3
67.5°	15366.2	3999.0	1603.9	1819.2	1760.0	1544.7	1523.2	1523.2	1469.3	1523.2	1520.5
70°	12389.8	2825.7	1315.9	1582.4	1606.6	1477.4	1466.6	1404.8	1318.6	1399.4	1391.3
72.5°	9391.9	2029.1	1036.1	1251.4	1383.2	1383.2	1385.9	1281.0	1181.4	1219.1	1186.8
75°	5950.0	1429.0	828.9	958.0	1084.5	1213.7	1275.6	1081.8	993.0	976.9	960.7
77.5°	2680.3	939.2	645.9	734.7	769.7	958.0	1165.2	931.1	810.0	775.0	764.3
80°	1122.2	584.0	460.2	519.4	473.6	804.6	1028.0	723.9	594.7	546.3	511.3
82.5°	492.5	347.2	293.3	279.9	296.0	597.4	767.0	481.7	371.4	503.2	508.6
85°	207.2	183.0	150.7	137.2	121.1	228.7	360.6	188.4	231.4	131.9	107.6
87.5°	48.4	53.8	40.4	26.9	16.1	2.7	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)