

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: P638821

Luminaire Tested: GWS-SA4F-750-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638821
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-SA4F-750-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34531 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

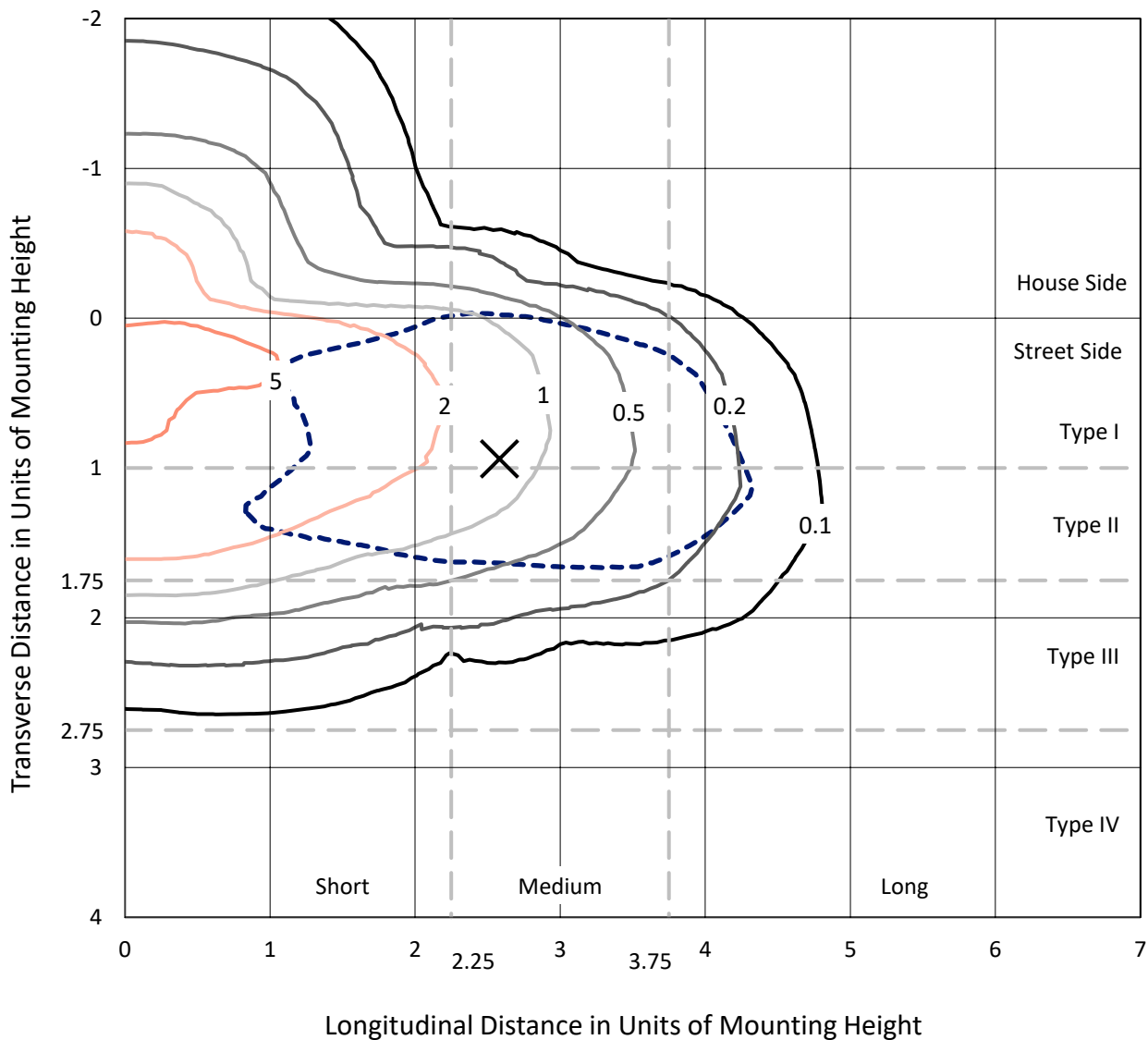
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

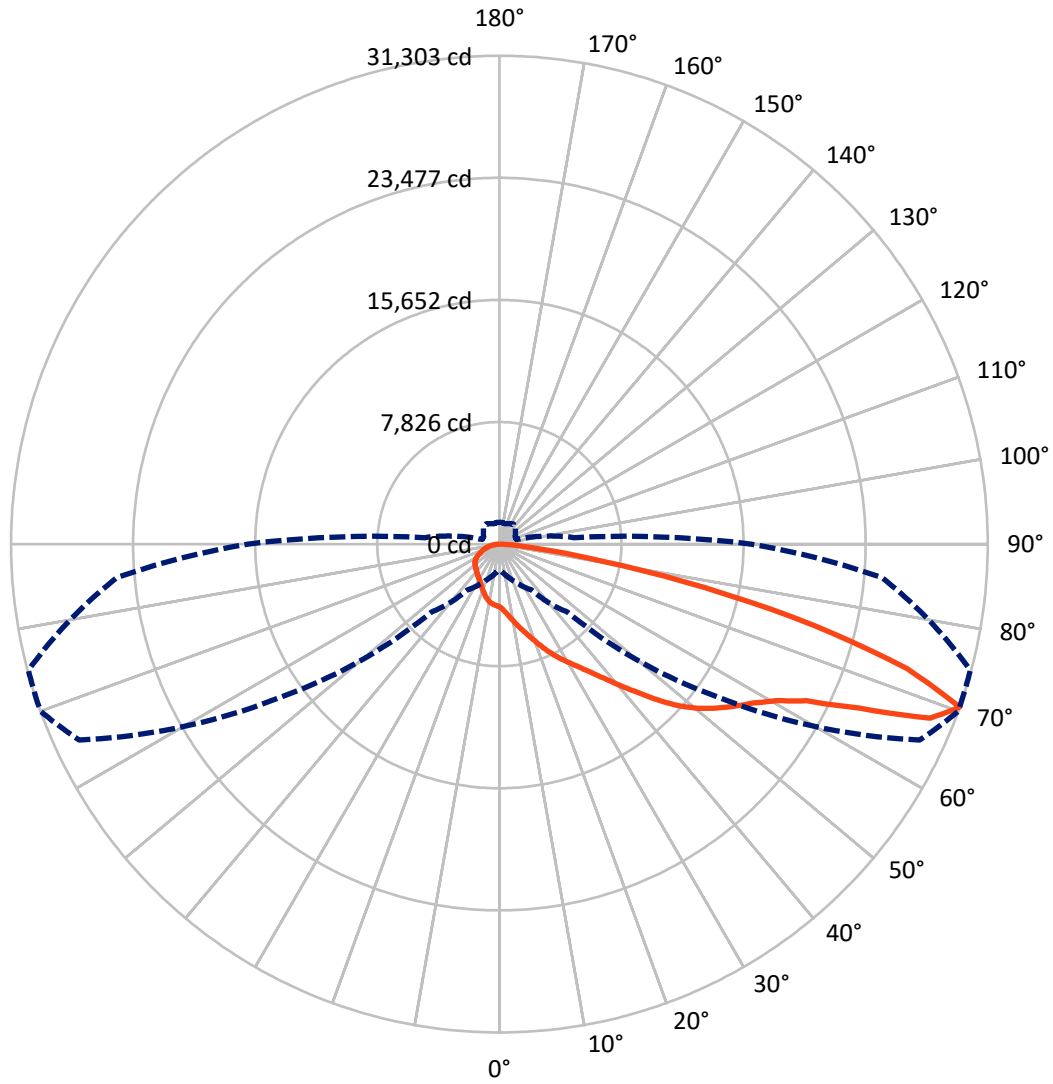
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	6188.0	0.0	6188.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	28343.0	0.0	28343.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	34531.0	0.0	34531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	1.2
10°-20°	1331.5	3.9
20°-30°	2358.7	6.8
30°-40°	3549.9	10.3
40°-50°	5370.6	15.6
50°-60°	7693.7	22.3
60°-70°	8504.5	24.6
70°-80°	4799.3	13.9
80°-90°	513.4	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°	34531.0	100.0
0°-180°	34531.0	100.0

Coefficient of Utilization



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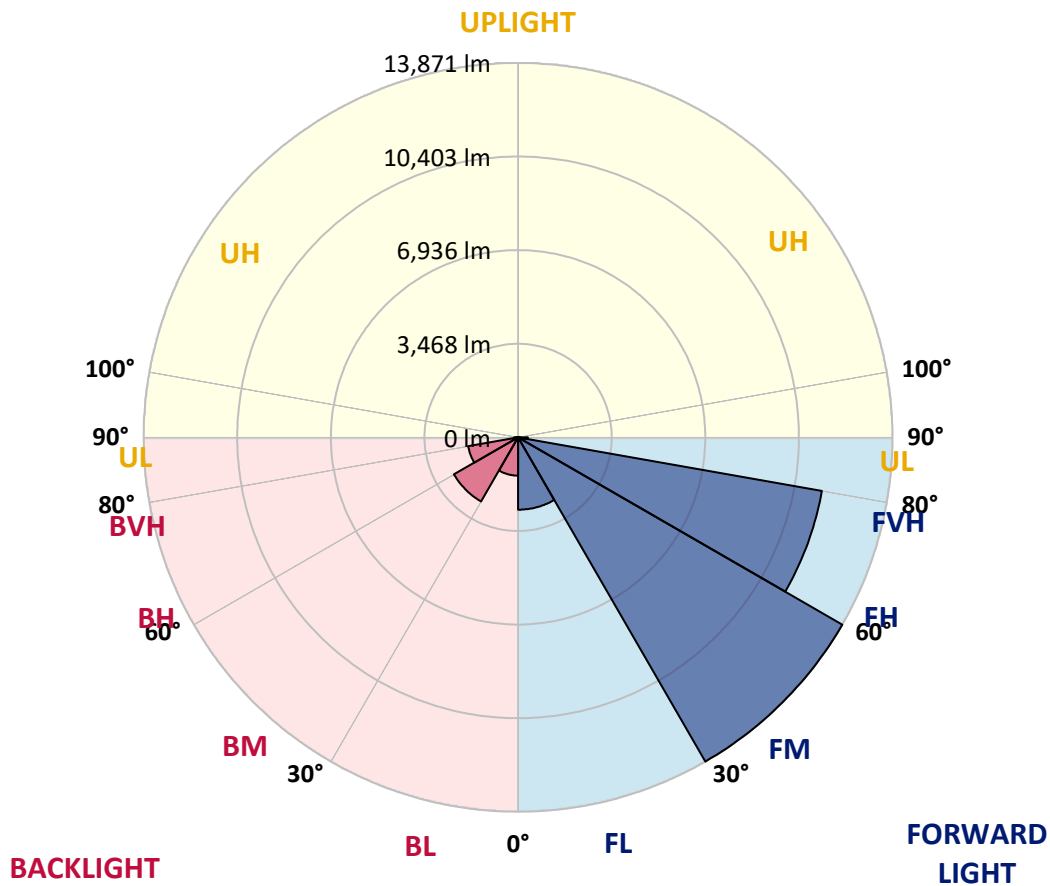
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.7	7.8			
FM (30°-60°)	13871.1	40.2			
FH (60°-80°)	11428.3	33.1			G4/12000
FVH (80°-90°)	362.9	1.1			G3/500
BL (0°-30°)	1418.8	4.1	B3/2500		
BM (30°-60°)	2743.2	7.9	B3/5000		
BH (60°-80°)	1875.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	150.5	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°	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0
2.5°	4461.2	4453.7	4458.7	4453.7	4426.2	4358.9	4304.0	4234.1	4186.7	4159.3	4094.4
5°	4985.1	4977.6	4960.2	4935.2	4885.3	4793.0	4655.8	4503.6	4411.3	4341.4	4204.2
7.5°	5361.9	5361.9	5359.4	5329.5	5294.5	5197.2	5035.0	4835.4	4700.7	4580.9	4356.4
10°	5554.0	5566.5	5583.9	5626.4	5618.9	5566.5	5414.3	5199.7	5030.0	4890.3	4556.0
12.5°	5658.8	5666.3	5696.2	5783.6	5873.4	5885.9	5796.0	5571.5	5386.8	5199.7	4778.0
15°	5793.5	5796.0	5835.9	5940.7	6073.0	6205.2	6182.8	5958.2	5768.6	5561.5	5025.1
17.5°	5898.3	5915.8	5988.1	6110.4	6275.1	6457.2	6567.0	6427.3	6192.7	5955.7	5294.5
20°	5935.8	5948.2	6043.0	6230.2	6454.7	6711.7	6956.2	6918.8	6681.8	6402.3	5598.9
22.5°	6070.5	6070.5	6140.3	6297.5	6562.0	6936.3	7333.0	7430.3	7220.7	6893.9	5925.8
25°	6367.4	6357.4	6389.9	6454.7	6654.3	7115.9	7704.8	7996.7	7762.1	7395.4	6252.6
27.5°	6774.1	6769.1	6766.6	6776.6	6844.0	7273.1	8019.1	8525.6	8291.1	7876.9	6544.5
30°	7215.7	7200.7	7233.2	7203.2	7188.3	7460.2	8286.1	8999.7	8817.5	8353.5	6786.6
32.5°	7817.0	7789.6	7782.1	7684.8	7624.9	7752.2	8500.7	9538.6	9393.9	8867.4	7058.5
35°	8610.5	8585.5	8458.3	8303.6	8126.4	8186.3	8767.6	10065.1	10075.1	9511.2	7415.3
37.5°	9411.4	9416.4	9316.6	8952.3	8770.1	8735.2	9174.3	10706.3	10920.9	10279.7	7876.9
40°	10077.6	10107.5	10107.5	9723.3	9451.3	9418.9	9745.7	11467.3	11894.0	11222.8	8460.8
42.5°	10584.1	10611.5	10698.8	10421.9	10134.9	10247.2	10439.3	12230.8	12996.8	12388.0	9199.3
45°	11140.5	11162.9	11210.3	11050.6	10883.5	11182.9	11225.3	13144.0	14259.3	13695.4	10057.6
47.5°	11879.0	11859.0	11864.0	11746.8	11617.0	12101.0	12091.1	13912.5	15479.4	15127.6	10988.3
50°	12797.2	12834.6	12799.7	12567.6	12415.4	12857.1	12914.4	14763.3	16552.2	16544.8	11926.4
52.5°	13680.4	13695.4	13880.0	13890.0	13578.1	13485.8	13635.5	15621.6	17457.9	17842.2	12827.1
55°	13725.3	13782.7	14336.6	14735.8	15239.8	14498.8	14364.1	16440.0	18333.7	19112.2	13762.8
57.5°	12769.7	12862.0	13802.7	14663.5	16065.7	16237.9	15611.6	17497.9	19209.5	20362.2	14845.6
60°	10728.8	10920.9	12198.4	13515.7	15693.9	17487.9	18164.0	18935.0	20359.7	21639.7	16160.5
62.5°	6851.4	6926.3	8717.7	10923.4	14019.8	17365.6	20943.5	21467.5	22111.2	23303.9	18186.5
65°	3430.7	3670.2	4720.7	6519.6	10110.0	15302.2	22348.3	26105.8	25317.4	26153.2	21470.0
67.5°	2327.9	2405.2	2936.7	3917.2	5928.3	10841.0	21477.5	30013.1	29781.1	29918.3	24970.6
70°	1716.6	1766.5	2185.7	2774.5	3585.4	6155.3	17098.7	29718.7	31303.0	31253.1	24603.8
72.5°	1252.5	1277.5	1594.3	2118.3	2657.2	3183.7	10441.8	24007.5	27325.9	28765.6	21517.4
75°	910.7	940.6	1107.8	1584.4	2065.9	1986.1	5154.8	17340.7	20838.8	23608.3	17530.3
77.5°	678.7	716.1	793.4	993.0	1447.1	1422.2	2228.1	11260.2	13478.3	15419.5	10648.9
80°	489.0	496.5	541.4	636.2	918.2	833.4	1060.4	5870.9	6731.7	7375.4	4174.2
82.5°	296.9	304.4	361.8	391.7	568.9	524.0	551.4	1901.2	2724.6	2891.8	1559.4
85°	87.3	92.3	164.7	179.6	237.0	224.6	222.1	773.5	923.2	1180.2	613.8
87.5°	0.0	0.0	0.0	0.0	2.5	15.0	27.4	137.2	207.1	286.9	149.7
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°	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0	4027.0
2.5°	4069.4	4012.1	3982.1	3929.7	3892.3	3854.9	3817.4	3782.5	3767.5	3745.1	3750.1
5°	4141.8	4052.0	3962.2	3859.9	3772.5	3700.2	3635.3	3577.9	3553.0	3530.5	3540.5
7.5°	4251.6	4116.9	3944.7	3757.6	3620.3	3520.5	3453.2	3413.2	3400.8	3383.3	3383.3
10°	4391.3	4189.2	3887.3	3620.3	3455.7	3375.8	3345.9	3343.4	3355.9	3358.4	3353.4
12.5°	4546.0	4259.1	3802.5	3458.2	3318.4	3293.5	3315.9	3358.4	3400.8	3423.2	3418.2
15°	4705.7	4304.0	3657.8	3303.5	3218.6	3251.1	3323.4	3408.3	3490.6	3533.0	3530.5
17.5°	4855.4	4314.0	3470.6	3153.8	3131.3	3213.6	3338.4	3470.6	3582.9	3642.8	3645.3
20°	5022.6	4296.5	3278.5	3019.0	3044.0	3178.7	3343.4	3503.1	3635.3	3695.2	3710.2
22.5°	5174.8	4236.6	3091.4	2891.8	2969.1	3136.3	3303.5	3453.2	3570.4	3627.8	3647.8
25°	5312.0	4121.8	2886.8	2784.5	2911.7	3076.4	3203.7	3308.5	3390.8	3425.7	3453.2
27.5°	5386.8	3949.7	2732.1	2699.7	2856.8	2991.6	3061.4	3093.9	3121.3	3111.3	3131.3
30°	5401.8	3735.1	2597.4	2632.3	2774.5	2874.3	2889.3	2856.8	2809.4	2732.1	2749.6
32.5°	5386.8	3488.1	2485.1	2559.9	2682.2	2742.1	2722.1	2637.3	2522.5	2402.7	2410.2
35°	5391.8	3238.6	2392.8	2480.1	2574.9	2607.3	2557.4	2440.2	2317.9	2208.1	2203.1
37.5°	5446.7	3029.0	2315.4	2402.7	2470.1	2475.1	2420.2	2298.0	2235.6	2153.2	2143.3
40°	5598.9	2874.3	2245.6	2325.4	2367.8	2365.3	2302.9	2215.6	2258.0	2230.6	2223.1
42.5°	5848.4	2779.5	2188.2	2243.1	2273.0	2278.0	2228.1	2173.2	2265.5	2230.6	2218.1
45°	6250.1	2774.5	2148.2	2160.7	2208.1	2243.1	2208.1	2145.8	2180.7	2011.0	1978.6
47.5°	6726.7	2859.3	2118.3	2088.4	2170.7	2233.1	2178.2	2078.4	2006.0	1851.3	1828.9
50°	7300.6	3031.5	2090.9	2011.0	2115.8	2195.7	2140.8	2003.5	1893.8	1811.4	1798.9
52.5°	7981.7	3258.6	2055.9	1923.7	2033.5	2175.7	2140.8	1996.0	1851.3	1776.5	1764.0
55°	8695.3	3520.5	2016.0	1818.9	1941.2	2180.7	2158.2	1943.7	1818.9	1779.0	1769.0
57.5°	9581.0	3834.9	1943.7	1696.6	1858.8	2135.8	2088.4	1913.7	1796.4	1764.0	1754.0
60°	10731.3	4301.5	1806.4	1571.9	1764.0	2055.9	2026.0	1863.8	1736.6	1709.1	1701.6
62.5°	12552.7	5092.4	1639.3	1452.1	1651.7	1888.8	1933.7	1769.0	1661.7	1659.2	1656.7
65°	15521.8	6043.0	1442.1	1344.8	1534.5	1751.5	1811.4	1671.7	1584.4	1611.8	1609.3
67.5°	17602.7	6125.4	1280.0	1232.6	1397.2	1601.8	1689.2	1571.9	1477.1	1529.5	1527.0
70°	16123.1	4778.0	1140.2	1115.3	1250.0	1439.7	1556.9	1447.1	1352.3	1402.2	1392.2
72.5°	13598.1	3662.8	1008.0	993.0	1100.3	1270.0	1387.3	1322.4	1222.6	1222.6	1200.1
75°	10928.4	3021.5	868.3	860.8	933.2	1097.8	1230.1	1120.3	1028.0	1023.0	1008.0
77.5°	6267.6	1981.1	728.6	723.6	746.0	918.2	955.6	933.2	863.3	830.9	820.9
80°	2497.6	1030.5	573.9	541.4	563.9	673.7	753.5	716.1	656.2	616.3	593.8
82.5°	968.1	516.5	404.2	354.3	386.7	486.5	546.4	533.9	494.0	404.2	379.2
85°	394.2	252.0	242.0	204.6	224.6	262.0	314.4	272.0	224.6	159.7	152.2
87.5°	104.8	92.3	89.8	54.9	42.4	12.5	2.5	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)