

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: P638711

Luminaire Tested: GWS-SA4F-735-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638711  
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-735-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

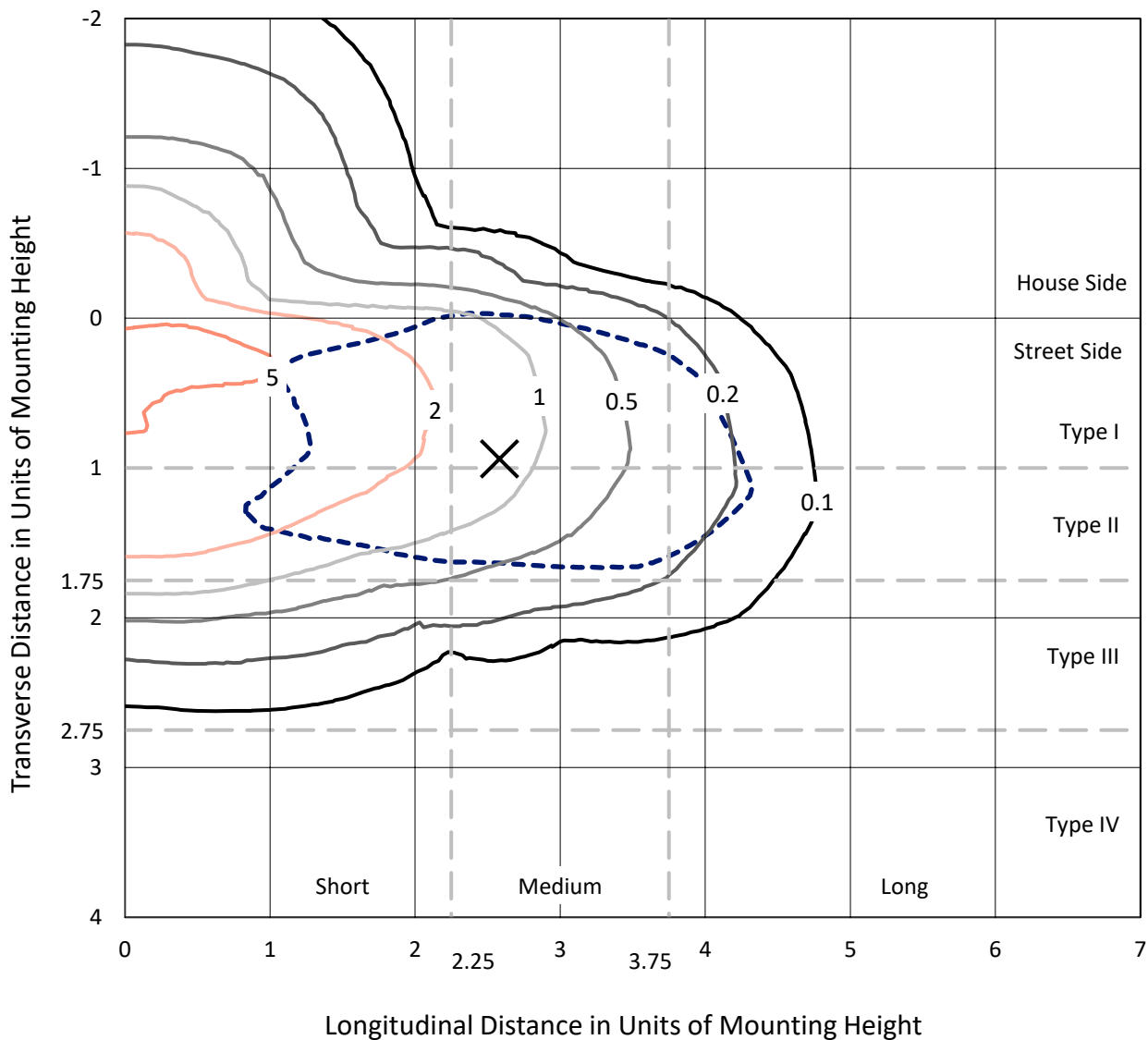
Lumens per Lamp: N/A  
Luminaire Lumens: 33294.8 lumens  
Efficiency: N/A  
Efficacy: 147.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

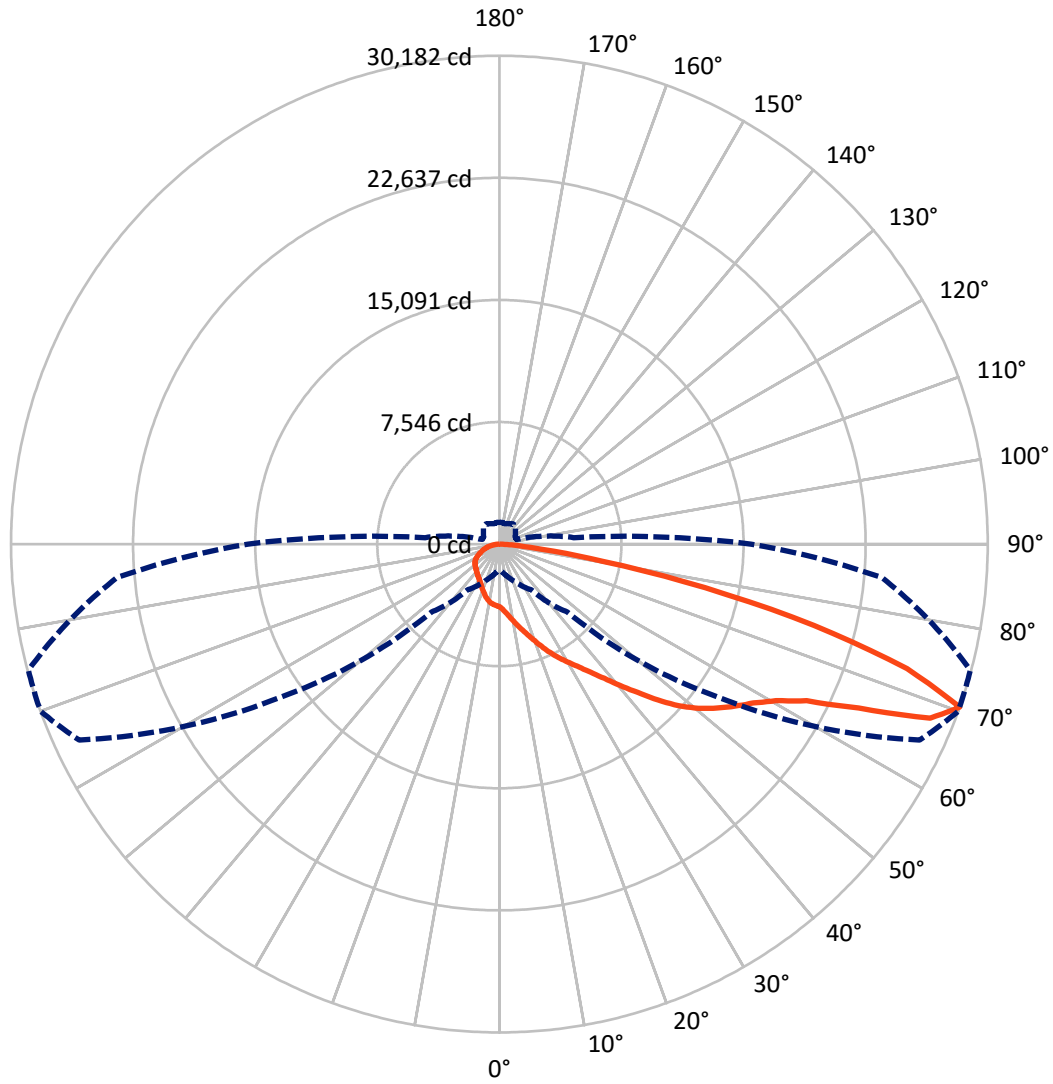
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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
<b>House Side</b>	Lumens	5966.5	0.0	5966.5
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	27328.3	0.0	27328.3
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	33294.8	0.0	33294.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.6	1.2
10°-20°	1283.8	3.9
20°-30°	2274.3	6.8
30°-40°	3422.9	10.3
40°-50°	5178.4	15.6
50°-60°	7418.3	22.3
60°-70°	8200.1	24.6
70°-80°	4627.5	13.9
80°-90°	495.0	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°	33294.8	100.0
0°-180°	33294.8	100.0

**Coefficient of Utilization**



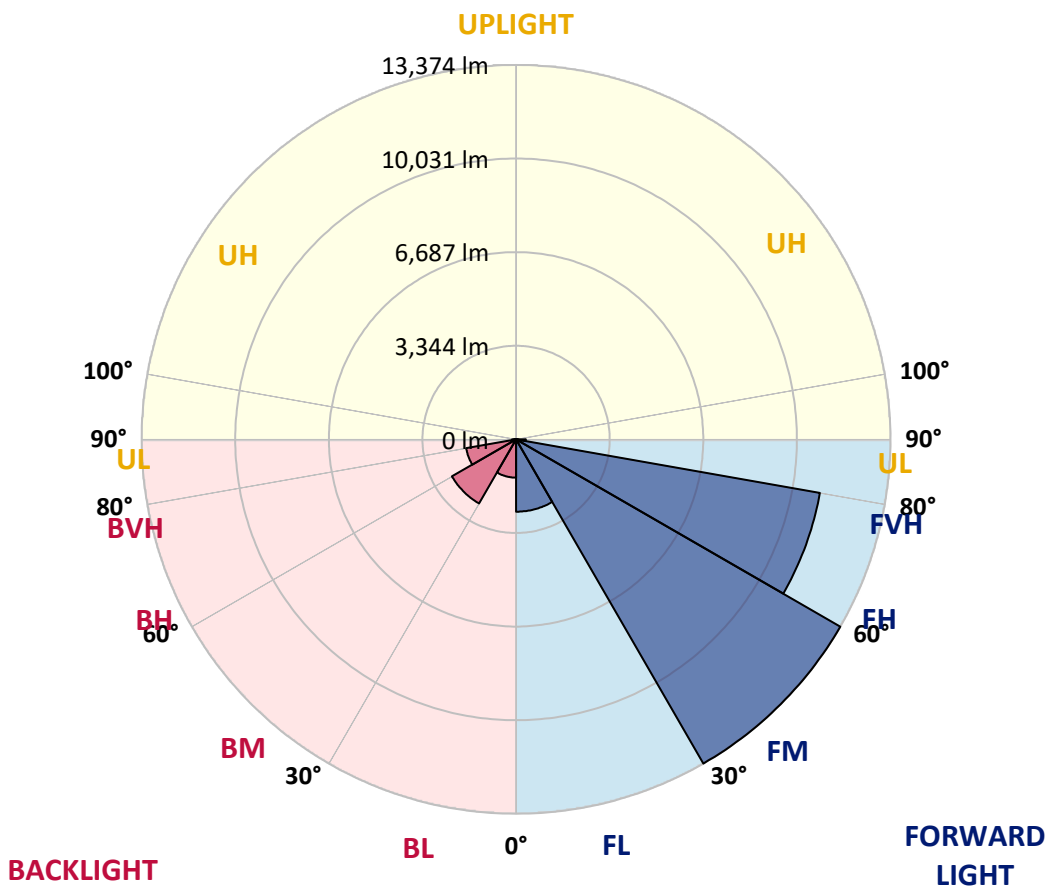
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.7	7.8			
FM (30°-60°)	13374.5	40.2			
FH (60°-80°)	11019.2	33.1			G4/12000
FVH (80°-90°)	349.9	1.1			G3/500
BL (0°-30°)	1368.0	4.1	B3/2500		
BM (30°-60°)	2645.0	7.9	B3/5000		
BH (60°-80°)	1808.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	145.1	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°	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9
2.5°	4301.5	4294.2	4299.1	4294.2	4267.8	4202.8	4149.9	4082.5	4036.8	4010.4	3947.8
5°	4806.7	4799.4	4782.6	4758.6	4710.4	4621.4	4489.1	4342.4	4253.3	4186.0	4053.7
7.5°	5169.9	5169.9	5167.5	5138.7	5105.0	5011.2	4854.8	4662.3	4532.4	4416.9	4200.4
10°	5355.2	5367.2	5384.0	5424.9	5417.7	5367.2	5220.5	5013.6	4850.0	4715.2	4392.9
12.5°	5456.2	5463.4	5492.3	5576.5	5663.1	5675.1	5588.5	5372.0	5194.0	5013.6	4607.0
15°	5586.1	5588.5	5627.0	5728.1	5855.6	5983.1	5961.4	5744.9	5562.1	5362.4	4845.2
17.5°	5687.2	5704.0	5773.8	5891.7	6050.4	6226.1	6331.9	6197.2	5971.0	5742.5	5105.0
20°	5723.3	5735.3	5826.7	6007.1	6223.6	6471.4	6707.2	6671.1	6442.6	6173.1	5398.5
22.5°	5853.2	5853.2	5920.5	6072.1	6327.1	6688.0	7070.5	7164.3	6962.2	6647.1	5713.6
25°	6139.4	6129.8	6161.1	6223.6	6416.1	6861.2	7428.9	7710.4	7484.3	7130.6	6028.8
27.5°	6531.6	6526.8	6524.4	6534.0	6598.9	7012.7	7732.0	8220.4	7994.3	7594.9	6310.3
30°	6957.4	6943.0	6974.2	6945.4	6930.9	7193.2	7989.5	8677.5	8501.9	8054.4	6543.6
32.5°	7537.2	7510.7	7503.5	7409.7	7351.9	7474.6	8196.4	9197.1	9057.6	8550.0	6805.8
35°	8302.2	8278.1	8155.5	8006.3	7835.5	7893.2	8453.8	9704.8	9714.4	9170.7	7149.9
37.5°	9074.4	9079.3	8983.0	8631.8	8456.2	8422.5	8845.9	10323.0	10529.9	9911.6	7594.9
40°	9716.8	9745.6	9745.6	9375.2	9112.9	9081.7	9396.8	11056.8	11468.2	10821.0	8157.9
42.5°	10205.1	10231.6	10315.8	10048.8	9772.1	9880.4	10065.6	11792.9	12531.5	11944.5	8870.0
45°	10741.6	10763.3	10809.0	10655.0	10493.8	10782.5	10823.4	12673.4	13748.8	13205.1	9697.5
47.5°	11453.7	11434.5	11439.3	11326.2	11201.1	11667.8	11658.2	13414.4	14925.2	14586.0	10594.9
50°	12339.0	12375.1	12341.4	12117.7	11971.0	12396.8	12452.1	14234.8	15959.7	15952.5	11499.4
52.5°	13190.7	13205.1	13383.1	13392.8	13092.0	13003.0	13147.4	15062.3	16833.0	17203.4	12367.9
55°	13234.0	13289.3	13823.4	14208.3	14694.3	13979.8	13849.8	15851.4	17677.4	18428.0	13270.1
57.5°	12312.6	12401.6	13308.5	14138.5	15490.6	15656.6	15052.7	16871.4	18521.8	19633.2	14314.1
60°	10344.7	10529.9	11761.7	13031.9	15132.1	16861.8	17513.8	18257.2	19630.8	20865.0	15582.0
62.5°	6606.2	6678.3	8405.7	10532.3	13517.8	16743.9	20193.8	20699.0	21319.7	22469.6	17535.4
65°	3307.9	3538.8	4551.7	6286.2	9748.1	14754.4	21548.2	25171.2	24411.0	25217.0	20701.4
67.5°	2244.6	2319.1	2831.6	3777.0	5716.0	10452.9	20708.6	28938.6	28714.9	28847.2	24076.6
70°	1655.1	1703.3	2107.4	2675.2	3457.0	5935.0	16486.5	28654.8	30182.4	30134.3	23723.0
72.5°	1207.7	1231.7	1537.3	2042.5	2562.1	3069.7	10068.0	23148.0	26347.7	27735.8	20747.1
75°	878.1	907.0	1068.1	1527.6	1992.0	1915.0	4970.3	16719.9	20092.7	22763.1	16902.7
77.5°	654.4	690.4	765.0	957.5	1395.3	1371.3	2148.3	10857.1	12995.8	14867.5	10267.7
80°	471.5	478.7	522.0	613.5	885.3	803.5	1022.4	5660.7	6490.7	7111.4	4024.8
82.5°	286.3	293.5	348.8	377.7	548.5	505.2	531.7	1833.2	2627.1	2788.3	1503.6
85°	84.2	89.0	158.8	173.2	228.5	216.5	214.1	745.8	890.1	1137.9	591.8
87.5°	0.0	0.0	0.0	0.0	2.4	14.4	26.5	132.3	199.7	276.7	144.3
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°	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9	3882.9
2.5°	3923.8	3868.4	3839.6	3789.0	3753.0	3716.9	3680.8	3647.1	3632.7	3611.0	3615.8
5°	3993.5	3906.9	3820.3	3721.7	3637.5	3567.7	3505.2	3449.8	3425.8	3404.1	3413.7
7.5°	4099.4	3969.5	3803.5	3623.0	3490.7	3394.5	3329.5	3291.1	3279.0	3262.2	3262.2
10°	4234.1	4039.2	3748.1	3490.7	3331.9	3255.0	3226.1	3223.7	3235.7	3238.1	3233.3
12.5°	4383.3	4106.6	3666.3	3334.4	3199.6	3175.6	3197.2	3238.1	3279.0	3300.7	3295.9
15°	4537.2	4149.9	3526.8	3185.2	3103.4	3134.7	3204.4	3286.2	3365.6	3406.5	3404.1
17.5°	4681.6	4159.5	3346.4	3040.9	3019.2	3098.6	3218.9	3346.4	3454.6	3512.4	3514.8
20°	4842.8	4142.7	3161.1	2910.9	2935.0	3064.9	3223.7	3377.7	3505.2	3562.9	3577.3
22.5°	4989.5	4084.9	2980.7	2788.3	2862.8	3024.0	3185.2	3329.5	3442.6	3497.9	3517.2
25°	5121.8	3974.3	2783.4	2684.8	2807.5	2966.3	3089.0	3190.0	3269.4	3303.1	3329.5
27.5°	5194.0	3808.3	2634.3	2603.0	2754.6	2884.5	2951.8	2983.1	3009.6	3000.0	3019.2
30°	5208.4	3601.4	2504.4	2538.1	2675.2	2771.4	2785.8	2754.6	2708.9	2634.3	2651.1
32.5°	5194.0	3363.2	2396.1	2468.3	2586.2	2643.9	2624.7	2542.9	2432.2	2316.7	2323.9
35°	5198.8	3122.6	2307.1	2391.3	2482.7	2514.0	2465.9	2352.8	2234.9	2129.1	2124.3
37.5°	5251.7	2920.6	2232.5	2316.7	2381.7	2386.5	2333.6	2215.7	2155.5	2076.2	2066.5
40°	5398.5	2771.4	2165.2	2242.1	2283.0	2280.6	2220.5	2136.3	2177.2	2150.7	2143.5
42.5°	5639.1	2680.0	2109.8	2162.8	2191.6	2196.4	2148.3	2095.4	2184.4	2150.7	2138.7
45°	6026.4	2675.2	2071.3	2083.4	2129.1	2162.8	2129.1	2068.9	2102.6	1939.0	1907.8
47.5°	6485.9	2757.0	2042.5	2013.6	2093.0	2153.1	2100.2	2004.0	1934.2	1785.1	1763.4
50°	7039.2	2923.0	2016.0	1939.0	2040.1	2117.1	2064.1	1931.8	1826.0	1746.6	1734.5
52.5°	7696.0	3141.9	1982.3	1854.8	1960.7	2097.8	2064.1	1924.6	1785.1	1712.9	1700.9
55°	8384.0	3394.5	1943.8	1753.8	1871.7	2102.6	2081.0	1874.1	1753.8	1715.3	1705.7
57.5°	9238.0	3697.6	1874.1	1635.9	1792.3	2059.3	2013.6	1845.2	1732.1	1700.9	1691.2
60°	10347.1	4147.5	1741.8	1515.6	1700.9	1982.3	1953.5	1797.1	1674.4	1647.9	1640.7
62.5°	12103.3	4910.1	1580.6	1400.1	1592.6	1821.1	1864.4	1705.7	1602.2	1599.8	1597.4
65°	14966.1	5826.7	1390.5	1296.7	1479.5	1688.8	1746.6	1611.8	1527.6	1554.1	1551.7
67.5°	16972.5	5906.1	1234.1	1188.4	1347.2	1544.5	1628.7	1515.6	1424.2	1474.7	1472.3
70°	15545.9	4607.0	1099.4	1075.4	1205.3	1388.1	1501.2	1395.3	1303.9	1352.0	1342.4
72.5°	13111.3	3531.6	971.9	957.5	1060.9	1224.5	1337.6	1275.0	1178.8	1178.8	1157.2
75°	10537.1	2913.4	837.2	830.0	899.7	1058.5	1186.0	1080.2	991.2	986.4	971.9
77.5°	6043.2	1910.2	702.5	697.7	719.3	885.3	921.4	899.7	832.4	801.1	791.5
80°	2408.1	993.6	553.3	522.0	543.7	649.5	726.5	690.4	632.7	594.2	572.6
82.5°	933.4	498.0	389.7	341.6	372.9	469.1	526.9	514.8	476.3	389.7	365.7
85°	380.1	243.0	233.4	197.3	216.5	252.6	303.1	262.2	216.5	154.0	146.8
87.5°	101.0	89.0	86.6	52.9	40.9	12.0	2.4	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)