

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: P640835

Luminaire Tested: GWS-SA5E-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-760-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

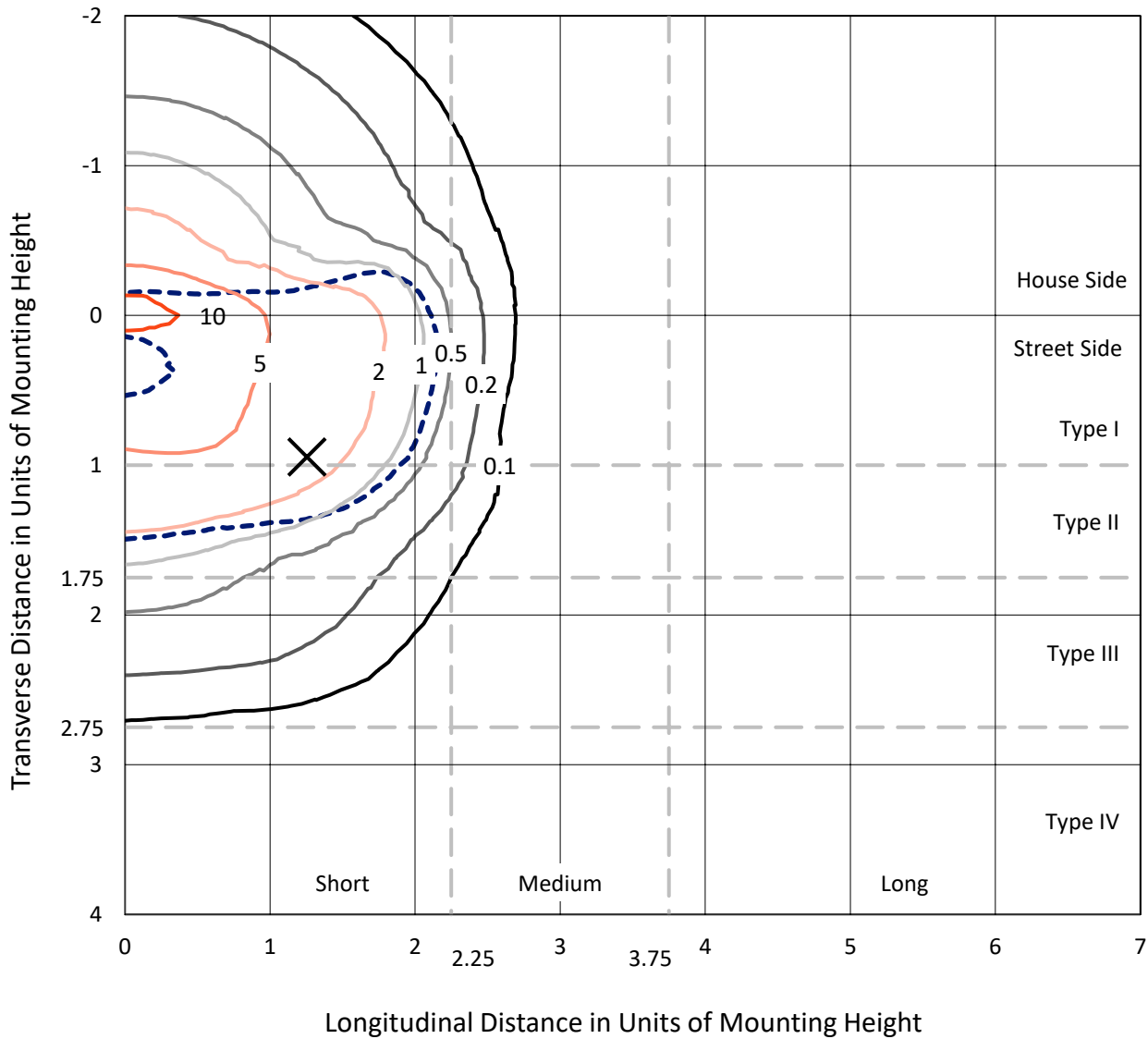
Lumens per Lamp: N/A  
Luminaire Lumens: 32258.4 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

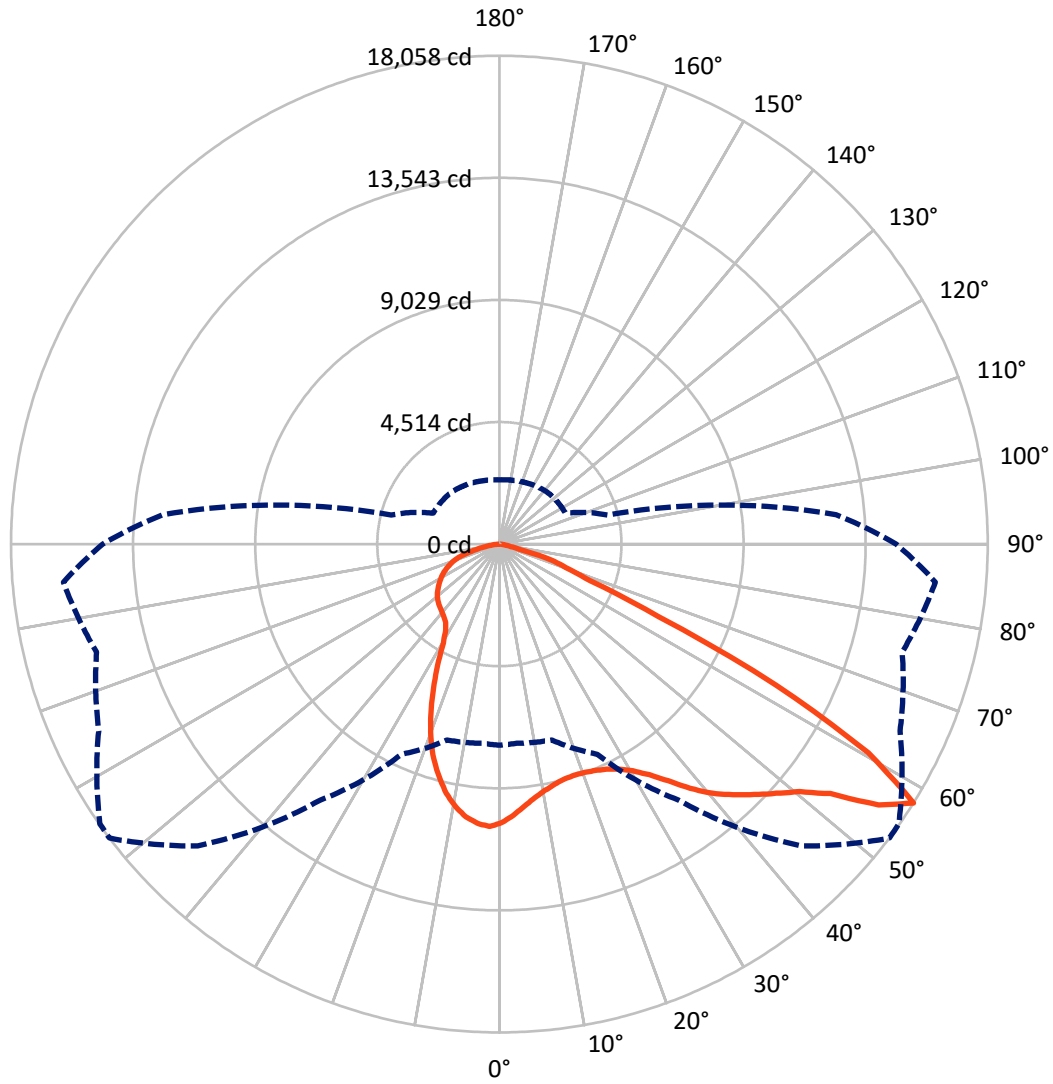
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10086.0	0.0	10086.0
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	22172.4	0.0	22172.4
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	32258.4	0.0	32258.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	931.5	2.9
10°-20°	2443.9	7.6
20°-30°	3600.7	11.2
30°-40°	5040.0	15.6
40°-50°	6625.5	20.5
50°-60°	7768.4	24.1
60°-70°	4576.4	14.2
70°-80°	1138.5	3.5
80°-90°	133.6	0.4
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°	32258.4	100.0
0°-180°	32258.4	100.0

**Coefficient of Utilization**



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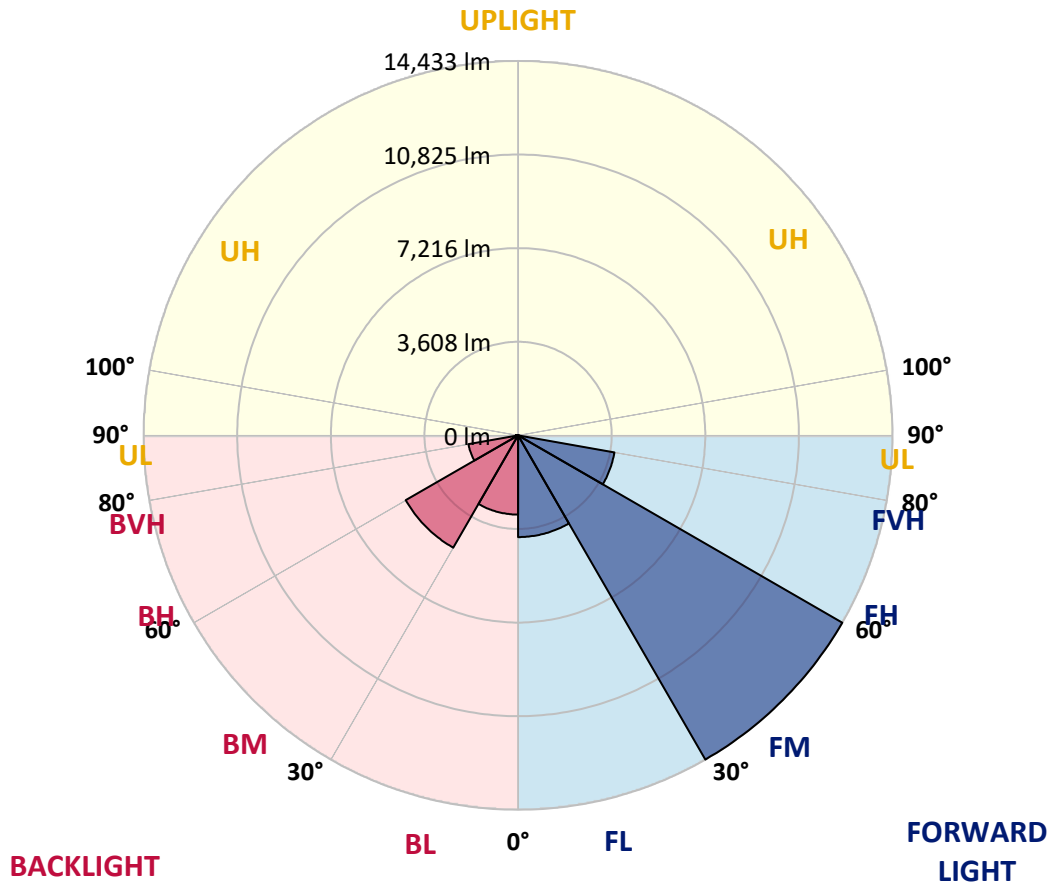
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3922.0	12.2			
FM (30°-60°)	14432.7	44.7			
FH (60°-80°)	3773.0	11.7			G2/5000
FVH (80°-90°)	44.7	0.1			G1/100
BL (0°-30°)	3054.1	9.5	B4/5000		
BM (30°-60°)	5001.2	15.5	B4/8500		
BH (60°-80°)	1941.9	6.0	B3/2500		G3/2500
BVH (80°-90°)	88.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0
2.5°	9709.1	9736.2	9741.7	9825.8	9831.3	9953.4	10034.9	10018.6	10102.8	10206.0	10287.4
5°	9244.8	9247.5	9274.7	9375.1	9429.4	9589.6	9725.4	9725.4	9888.3	10100.1	10282.0
7.5°	8862.0	8859.3	8883.7	8995.0	9084.6	9277.4	9462.0	9483.7	9711.8	10021.3	10317.3
10°	8506.3	8525.3	8552.5	8688.2	8802.3	9041.2	9261.1	9296.4	9584.2	9967.0	10366.1
12.5°	8278.3	8281.0	8321.7	8473.7	8620.3	8875.6	9106.3	9149.8	9481.0	9915.4	10401.4
15°	8131.6	8134.4	8177.8	8346.1	8517.2	8775.1	9011.3	9060.2	9421.3	9907.3	10469.3
17.5°	8066.5	8063.8	8104.5	8272.8	8460.2	8729.0	8981.5	9041.2	9448.4	9969.7	10588.8
20°	8066.5	8069.2	8090.9	8243.0	8433.0	8718.1	9011.3	9084.6	9554.3	10110.9	10773.4
22.5°	8180.5	8191.4	8202.2	8305.4	8454.7	8734.4	9090.1	9187.8	9782.4	10347.1	11015.0
25°	8403.1	8405.9	8416.7	8500.9	8568.8	8780.5	9220.4	9367.0	10138.1	10691.9	11319.1
27.5°	8701.8	8739.8	8750.7	8805.0	8805.0	8894.6	9424.0	9635.8	10618.6	11188.8	11707.4
30°	9119.9	9133.5	9152.5	9212.2	9147.1	9109.1	9722.7	9994.2	11175.2	11788.8	12174.4
32.5°	9486.5	9516.3	9619.5	9717.2	9600.5	9481.0	10162.5	10482.9	11710.1	12413.3	12671.2
35°	9798.7	9872.0	10070.2	10287.4	10206.0	10086.5	10746.3	11080.2	12149.9	12861.3	13111.1
37.5°	10176.1	10233.1	10504.6	10857.6	10930.9	10873.9	11457.6	11696.5	12443.2	12975.3	13350.0
40°	10558.9	10645.8	10996.0	11484.7	11764.4	11805.1	12114.6	12274.8	12543.6	12752.7	13303.8
42.5°	10949.9	11099.2	11579.8	12149.9	12646.8	12739.1	12668.5	12736.4	12511.0	12445.9	13089.4
45°	11427.7	11604.2	12147.2	12874.9	13529.2	13673.1	13211.5	13149.1	12505.6	12329.1	12956.3
47.5°	11992.5	12168.9	12687.5	13534.6	14370.9	14476.8	13768.1	13654.1	12695.7	12508.3	13135.5
50°	12492.0	12614.2	13078.5	14026.1	15155.5	15218.0	14381.7	14243.3	13168.1	13005.2	13694.8
52.5°	11984.3	11970.7	12459.5	13626.9	15562.8	16314.9	15326.6	15193.5	14080.4	13830.6	14560.9
55°	10167.9	10013.2	10450.3	11598.8	14425.2	17289.6	17020.8	16754.7	15296.7	14661.4	15372.7
57.5°	7433.9	7390.4	7496.3	8574.2	11555.3	15780.0	18057.9	18033.5	16347.4	15421.6	16181.8
60°	5813.0	5747.8	5465.4	5495.3	7876.4	12326.4	15671.4	16390.9	16999.1	15877.7	16746.6
62.5°	5161.3	5112.5	4965.9	4561.3	4691.6	8264.7	11487.5	12147.2	14854.2	14023.3	14384.4
65°	4273.5	4259.9	4382.1	4365.8	3931.4	4564.0	6483.6	7148.8	9339.8	9456.6	9339.8
67.5°	3106.0	3081.6	3391.1	4002.0	3784.8	3445.4	3613.8	3844.5	4789.4	4300.7	3871.7
70°	2020.0	1984.7	2163.9	2891.6	3388.4	3002.9	2603.8	2565.7	2633.6	1637.2	1770.2
72.5°	1354.8	1314.1	1311.4	1591.0	2047.2	2022.7	2017.3	1998.3	1783.8	1292.4	1433.6
75°	754.8	722.2	714.1	686.9	733.1	746.6	795.5	822.7	890.5	980.1	1086.0
77.5°	127.6	124.9	157.5	200.9	276.9	355.7	439.8	464.3	572.9	678.8	746.6
80°	70.6	73.3	95.0	116.7	154.8	211.8	271.5	287.8	353.0	410.0	464.3
82.5°	38.0	38.0	48.9	62.4	84.2	111.3	146.6	160.2	203.6	238.9	276.9
85°	13.6	13.6	19.0	24.4	35.3	46.2	57.0	65.2	89.6	122.2	138.5
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	10.9	10.9	13.6	24.4	35.3
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°	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0	10301.0
2.5°	10355.3	10282.0	10382.4	10428.6	10444.9	10455.7	10385.1	10336.3	10320.0	10268.4	10238.5
5°	10393.3	10344.4	10439.4	10439.4	10371.6	10301.0	10157.1	10056.6	9986.0	9901.9	9888.3
7.5°	10458.5	10423.2	10474.7	10368.9	10197.8	10007.8	9758.0	9562.5	9405.0	9301.8	9304.5
10°	10545.3	10501.9	10461.2	10225.0	9912.7	9562.5	9179.7	8894.6	8633.9	8514.5	8449.3
12.5°	10602.4	10539.9	10368.9	9977.9	9519.0	9049.3	8509.0	8085.5	7708.1	7537.0	7523.5
15°	10672.9	10558.9	10216.8	9657.5	9019.5	8378.7	7683.7	7094.5	6584.0	6318.0	6304.4
17.5°	10765.3	10577.9	10034.9	9291.0	8492.7	7547.9	6673.6	5932.4	5389.4	5183.1	5218.4
20°	10895.6	10599.6	9828.6	8883.7	7838.4	6603.1	5514.3	4832.8	4623.8	4610.2	4583.0
22.5°	11042.2	10613.2	9600.5	8427.6	7045.6	5595.8	4555.9	4265.4	4262.7	4330.5	4346.8
25°	11207.8	10624.1	9342.6	7895.4	6187.6	4591.2	4029.2	3942.3	4010.2	4137.8	4154.1
27.5°	11419.6	10645.8	9030.3	7311.7	5275.4	3966.7	3738.7	3716.9	3798.4	3917.8	3912.4
30°	11731.8	10724.5	8699.1	6641.1	4338.7	3670.8	3562.2	3564.9	3597.5	3654.5	3662.6
32.5°	12049.5	10846.7	8376.0	5886.3	3801.1	3502.4	3453.6	3448.1	3448.1	3472.6	3478.0
35°	12350.9	10985.2	8025.7	5098.9	3540.5	3404.7	3372.1	3355.8	3347.7	3342.3	3334.1
37.5°	12519.2	11053.1	7683.7	4322.4	3402.0	3339.5	3307.0	3285.2	3255.4	3233.6	3228.2
40°	12445.9	10974.3	7287.3	3741.4	3317.8	3277.1	3239.1	3209.2	3168.5	3149.5	3138.6
42.5°	12201.5	10730.0	6855.6	3467.1	3249.9	3209.2	3163.1	3114.2	3087.0	3070.7	3068.0
45°	11943.6	10434.0	6334.3	3307.0	3184.8	3135.9	3081.6	3027.3	2997.4	2989.3	2986.6
47.5°	11935.5	10287.4	5780.4	3179.3	3106.0	3057.2	2989.3	2935.0	2902.4	2891.6	2880.7
50°	12293.8	10436.7	5155.9	3068.0	3024.6	2973.0	2897.0	2837.2	2796.5	2782.9	2780.2
52.5°	13037.8	10998.8	4596.6	2956.7	2916.0	2856.3	2793.8	2734.1	2685.2	2660.8	2658.1
55°	13841.4	11712.8	4249.1	2842.7	2788.4	2736.8	2679.8	2614.6	2560.3	2522.3	2516.9
57.5°	14672.2	12492.0	4143.2	2698.8	2658.1	2622.8	2554.9	2484.3	2421.8	2386.5	2378.4
60°	15356.4	13162.7	4341.4	2546.7	2525.0	2478.9	2416.4	2348.5	2305.1	2277.9	2272.5
62.5°	12855.9	10716.4	3505.2	2381.1	2381.1	2332.2	2261.7	2212.8	2182.9	2163.9	2158.5
65°	8158.8	6635.6	2392.0	2215.5	2212.8	2147.6	2087.9	2055.3	2041.7	2011.9	2006.4
67.5°	3554.0	3032.7	2044.4	2047.2	2036.3	1965.7	1906.0	1881.5	1854.4	1821.8	1819.1
70°	1843.5	1878.8	1830.0	1859.8	1840.8	1756.7	1699.6	1661.6	1604.6	1572.0	1574.7
72.5°	1487.9	1525.9	1580.2	1626.3	1585.6	1517.7	1428.1	1382.0	1308.7	1273.4	1276.1
75°	1134.9	1175.6	1227.2	1276.1	1243.5	1159.3	1102.3	1056.2	972.0	931.3	939.4
77.5°	781.9	803.7	866.1	863.4	852.5	828.1	743.9	689.6	602.7	553.9	559.3
80°	486.0	499.6	529.4	543.0	537.6	505.0	437.1	396.4	344.8	314.9	317.7
82.5°	293.2	301.4	328.5	331.2	328.5	304.1	252.5	222.6	190.1	173.8	173.8
85°	149.3	154.8	171.0	171.0	154.8	130.3	116.7	103.2	84.2	76.0	76.0
87.5°	40.7	40.7	51.6	43.4	35.3	32.6	16.3	13.6	5.4	2.7	2.7
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)