

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: P635577

Luminaire Tested: GWS-SA3E-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-722-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

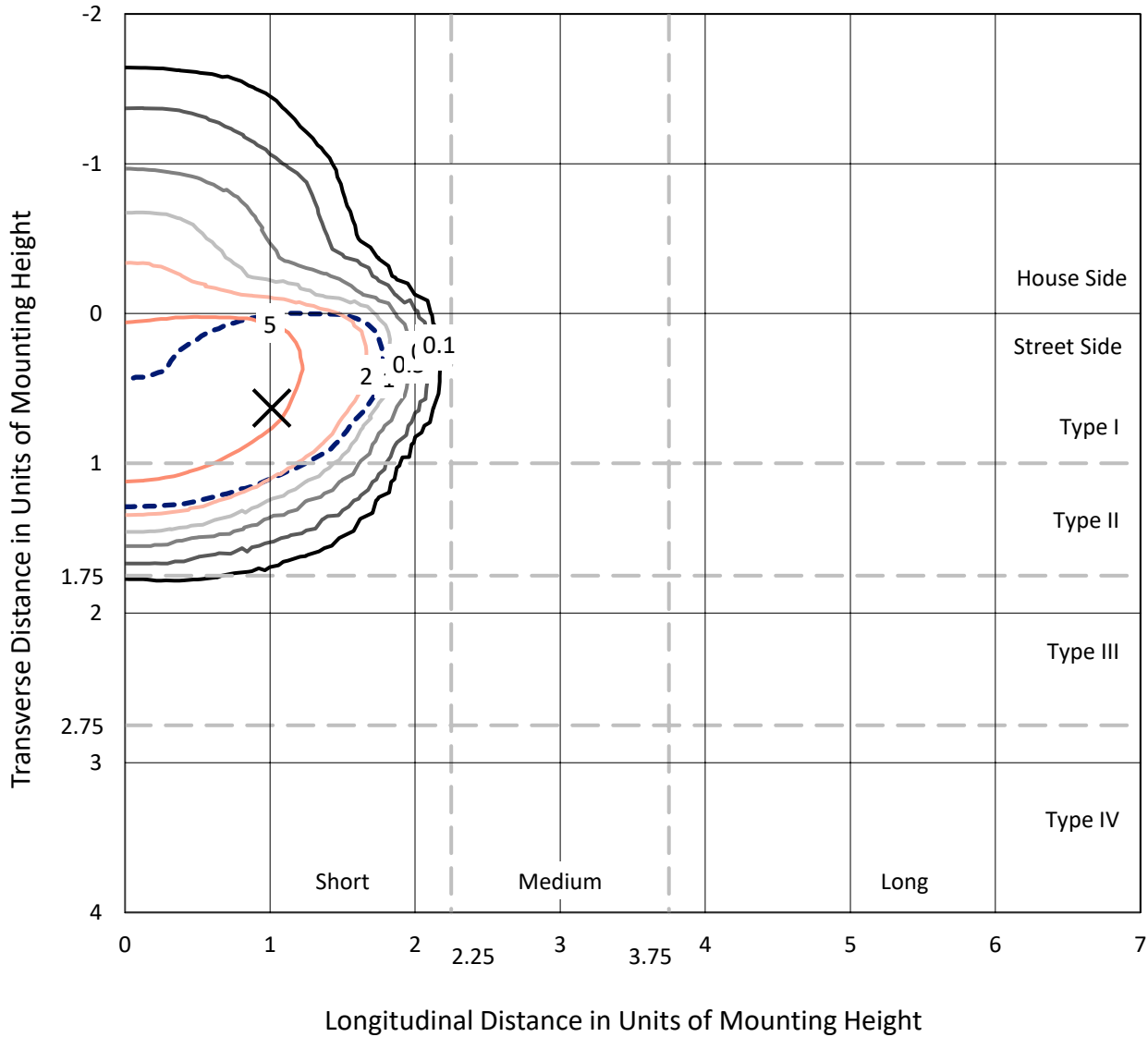
Lumens per Lamp: N/A  
Luminaire Lumens: 10858.8 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

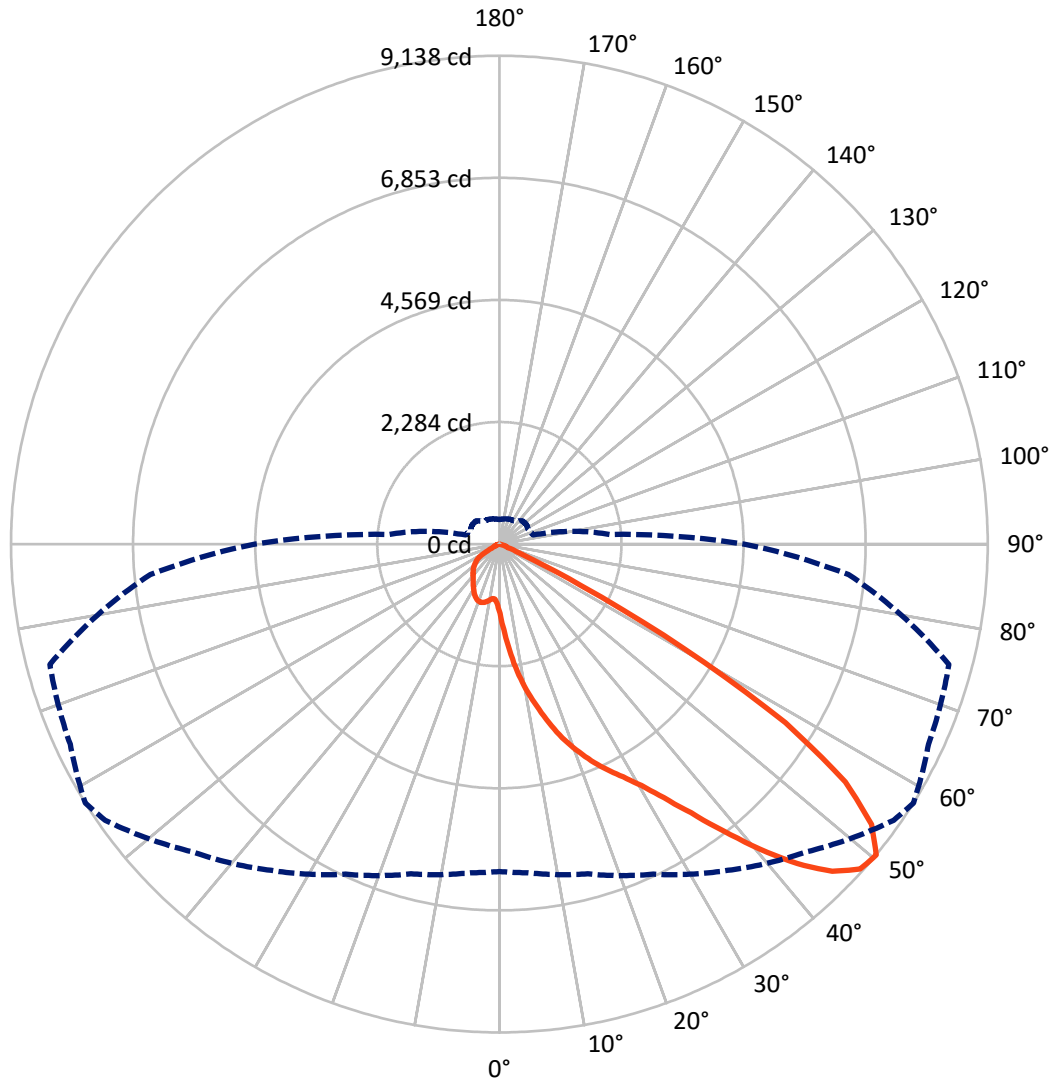
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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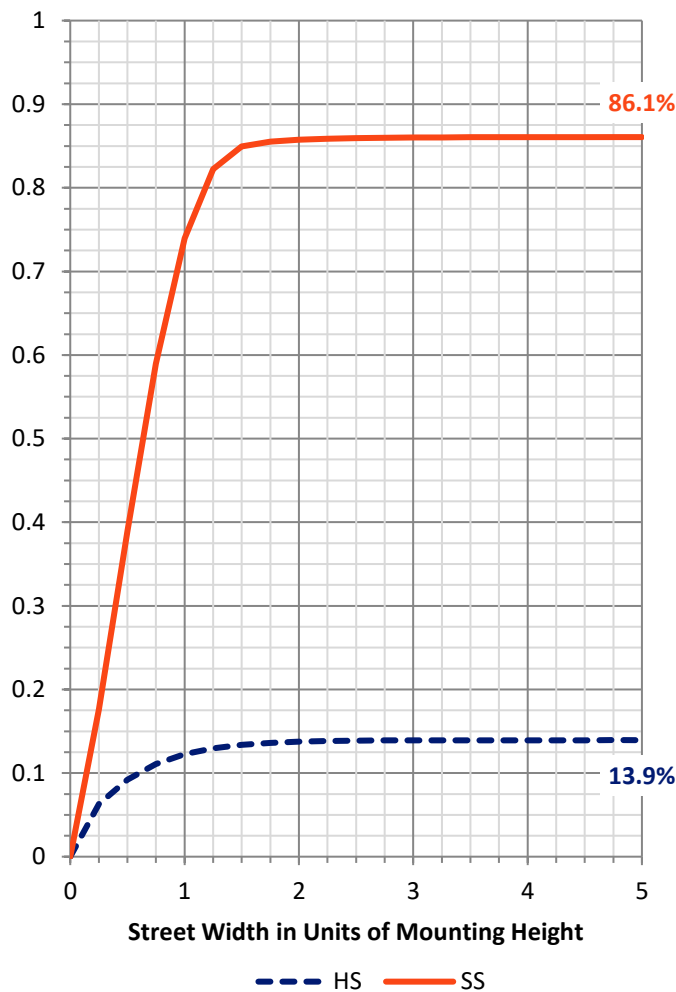
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1520.9	0.0	1520.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	9337.9	0.0	9337.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	10858.8	0.0	10858.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.7	1.5
10°-20°	636.1	5.9
20°-30°	1287.2	11.9
30°-40°	2277.2	21.0
40°-50°	3319.7	30.6
50°-60°	2660.8	24.5
60°-70°	479.4	4.4
70°-80°	37.8	0.3
80°-90°	0.0	0.0
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°	10858.8	100.0
0°-180°	10858.8	100.0

**Coefficient of Utilization**



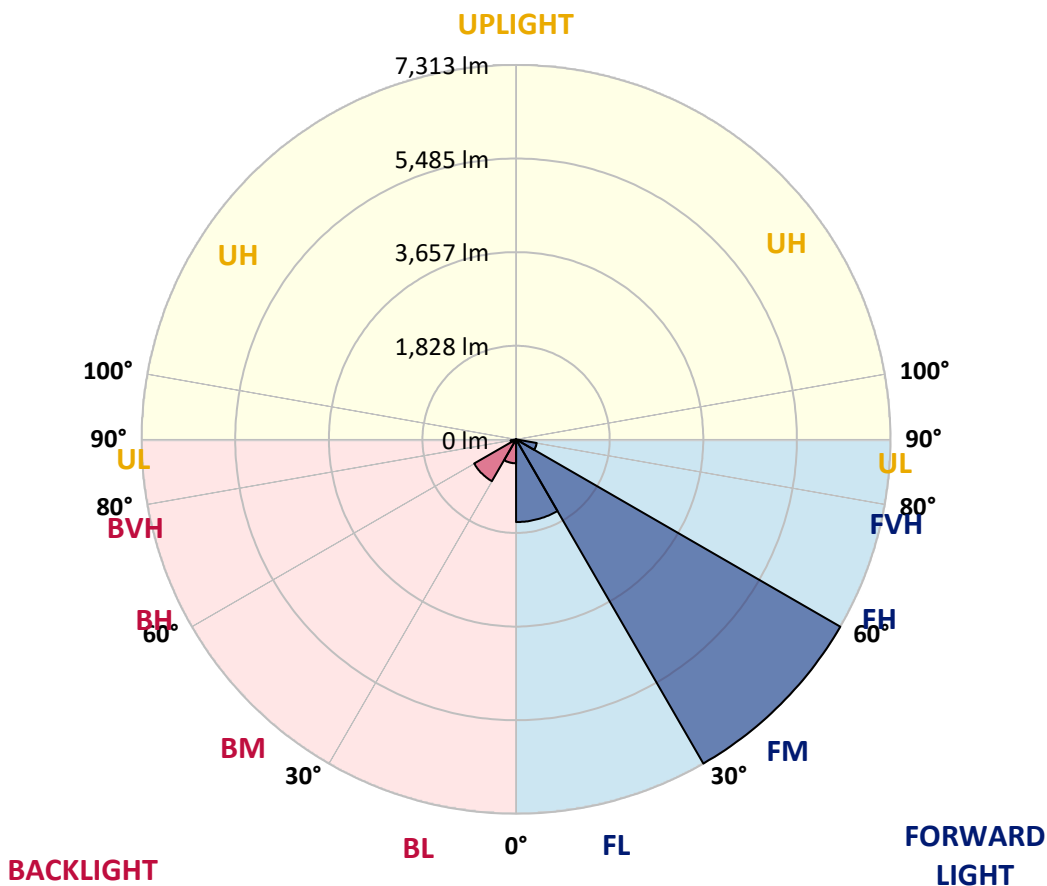
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.8	14.9			
FM (30°-60°)	7313.1	67.3			
FH (60°-80°)	409.0	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	468.2	4.3	B1/500		
BM (30°-60°)	944.6	8.7	B1/1000		
BH (60°-80°)	108.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1
2.5°	1919.5	1889.3	1871.9	1857.9	1796.4	1698.8	1635.0	1601.3	1545.6	1451.5	1370.2
5°	2504.7	2482.7	2442.0	2414.1	2335.2	2197.0	2054.2	1997.3	1870.7	1658.2	1467.8
7.5°	2892.6	2876.3	2861.2	2824.0	2749.7	2624.3	2466.4	2407.2	2212.1	1910.2	1597.8
10°	3191.0	3178.2	3160.8	3159.6	3101.6	2988.9	2834.5	2773.0	2561.6	2184.2	1751.1
12.5°	3453.4	3443.0	3439.5	3472.0	3434.8	3351.2	3184.0	3107.4	2883.3	2464.1	1920.6
15°	3633.4	3631.1	3646.2	3710.0	3730.9	3692.6	3552.1	3469.7	3211.9	2745.1	2107.6
17.5°	3715.9	3722.8	3751.9	3862.2	3955.1	3987.6	3879.6	3809.9	3538.2	3029.6	2307.3
20°	3856.4	3854.0	3871.5	3976.0	4089.8	4205.9	4173.4	4114.1	3868.0	3330.3	2529.1
22.5°	4252.3	4218.7	4181.5	4197.8	4238.4	4374.3	4434.6	4404.4	4208.2	3639.2	2757.9
25°	4860.8	4826.0	4706.4	4590.2	4513.6	4575.1	4657.6	4672.7	4546.1	3956.2	2997.1
27.5°	5506.4	5475.1	5340.4	5166.2	4946.7	4839.9	4901.4	4931.6	4878.2	4333.6	3251.4
30°	6111.4	6069.6	5922.1	5706.2	5451.9	5288.1	5218.5	5239.4	5270.7	4780.7	3549.8
32.5°	6636.3	6604.9	6428.4	6200.8	5955.8	5785.1	5622.6	5657.4	5734.0	5327.6	3931.8
35°	7081.0	7064.8	6877.8	6651.4	6392.4	6305.3	6166.0	6173.0	6249.6	5988.3	4397.5
37.5°	7467.7	7439.8	7270.3	7060.1	6854.6	6840.7	6802.3	6805.8	6845.3	6758.2	4932.8
40°	7711.6	7686.0	7565.2	7435.2	7288.9	7291.2	7489.8	7504.9	7459.6	7514.2	5498.3
42.5°	7803.3	7784.7	7719.7	7720.8	7705.8	7774.3	8147.0	8174.9	8012.3	8107.5	5981.4
45°	7644.2	7636.1	7640.7	7807.9	7989.1	8200.4	8684.6	8733.4	8503.5	8501.2	6358.8
47.5°	7131.0	7114.7	7250.6	7535.1	7954.2	8365.3	9009.8	9085.3	8847.2	8726.4	6595.6
50°	6125.4	6171.8	6386.6	6813.9	7451.4	8138.9	9006.3	9137.5	8860.0	8706.7	6556.2
52.5°	4437.0	4427.7	4898.0	5485.5	6261.2	7414.3	8527.9	8719.5	8549.9	8512.8	6467.9
55°	2414.1	2498.9	2815.9	3593.9	4562.4	6042.9	7435.2	7853.2	8049.5	8442.0	6627.0
57.5°	887.2	924.3	1122.9	1673.3	2415.3	3757.7	5679.4	6310.0	6916.1	8244.5	6600.3
60°	357.7	364.6	443.6	615.4	1014.9	1912.5	3407.0	3966.7	4538.0	6311.1	5065.2
62.5°	260.1	269.4	300.8	360.0	513.3	836.1	1468.9	1708.1	1867.2	3126.0	2495.4
65°	210.2	217.1	242.7	269.4	339.1	449.4	473.8	456.4	454.0	808.2	572.5
67.5°	174.2	181.1	199.7	218.3	243.9	224.1	162.6	170.7	139.3	138.2	112.6
70°	127.7	135.9	154.4	174.2	146.3	60.4	94.1	139.3	105.7	88.3	85.9
72.5°	96.4	102.2	119.6	113.8	43.0	23.2	62.7	101.0	81.3	65.0	63.9
75°	72.0	75.5	60.4	18.6	4.6	5.8	23.2	41.8	45.3	37.2	37.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.5	4.6	5.8	7.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1	1297.1
2.5°	1323.8	1275.0	1205.3	1147.3	1103.1	1060.2	1027.7	995.2	994.0	977.7	974.3
5°	1379.5	1291.3	1163.5	1071.8	1016.1	982.4	959.2	947.5	941.7	935.9	933.6
7.5°	1459.6	1333.1	1156.6	1059.0	1012.6	990.5	974.3	967.3	963.8	959.2	958.0
10°	1558.3	1393.4	1182.1	1083.4	1042.8	1021.9	1004.4	994.0	988.2	980.1	977.7
12.5°	1676.8	1467.8	1222.7	1124.0	1081.1	1053.2	1030.0	1014.9	1006.8	996.3	994.0
15°	1804.5	1547.9	1268.0	1161.2	1110.1	1074.1	1045.1	1021.9	1006.8	994.0	990.5
17.5°	1936.9	1629.2	1308.7	1186.8	1124.0	1081.1	1039.3	1007.9	989.3	973.1	968.4
20°	2085.5	1712.8	1335.4	1191.4	1119.4	1062.5	1013.7	974.3	955.7	933.6	929.0
22.5°	2241.1	1790.6	1347.0	1180.9	1093.9	1027.7	975.4	934.8	908.1	884.8	877.9
25°	2392.1	1860.2	1341.2	1151.9	1055.5	978.9	925.5	883.7	854.6	831.4	825.6
27.5°	2552.3	1918.3	1320.3	1108.9	1003.3	925.5	874.4	838.4	811.7	786.1	780.3
30°	2732.3	1971.7	1286.6	1056.7	941.7	870.9	831.4	807.0	778.0	751.3	743.2
32.5°	2949.5	2019.3	1237.8	994.0	887.2	823.3	801.2	782.7	749.0	721.1	715.3
35°	3198.0	2058.8	1176.3	929.0	833.7	793.1	788.5	764.1	719.9	687.4	680.5
37.5°	3485.9	2097.1	1103.1	865.1	794.3	779.2	780.3	738.5	685.1	645.6	641.0
40°	3796.0	2135.5	1021.9	809.4	758.3	771.0	760.6	701.4	614.3	576.0	571.3
42.5°	4118.8	2177.3	939.4	757.1	728.1	739.7	724.6	627.1	564.3	544.6	542.3
45°	4410.3	2227.2	850.0	704.9	697.9	694.4	668.9	567.8	541.1	527.2	526.0
47.5°	4620.4	2219.1	754.8	654.9	665.4	653.8	576.0	540.0	517.9	499.3	494.7
50°	4582.1	2077.4	656.1	599.2	623.6	613.1	517.9	507.4	487.7	468.0	461.0
52.5°	4484.6	1884.6	570.2	540.0	578.3	553.9	478.4	468.0	450.5	425.0	416.9
55°	4536.8	1703.5	502.8	492.4	531.8	458.7	434.3	418.0	399.5	371.6	368.1
57.5°	4368.4	1390.0	404.1	411.1	470.3	391.3	380.9	355.3	324.0	305.4	303.1
60°	3023.8	746.7	253.1	261.3	340.2	328.6	341.4	318.2	279.9	262.4	258.9
62.5°	1388.8	299.6	138.2	132.4	178.8	223.0	292.6	290.3	242.7	214.8	212.5
65°	336.7	137.0	98.7	92.9	101.0	133.5	190.4	228.8	196.2	163.7	160.2
67.5°	109.2	111.5	90.6	84.8	89.4	99.9	113.8	126.6	125.4	115.0	112.6
70°	87.1	101.0	83.6	76.6	76.6	80.1	76.6	61.5	53.4	58.1	60.4
72.5°	65.0	76.6	66.2	59.2	56.9	55.7	47.6	34.8	24.4	22.1	20.9
75°	38.3	43.0	40.6	34.8	32.5	29.0	23.2	15.1	8.1	5.8	3.5
77.5°	7.0	8.1	9.3	7.0	5.8	4.6	3.5	1.2	0.0	0.0	0.0
80°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)