

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: P633770

Luminaire Tested: GWS-SA2F-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10035.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

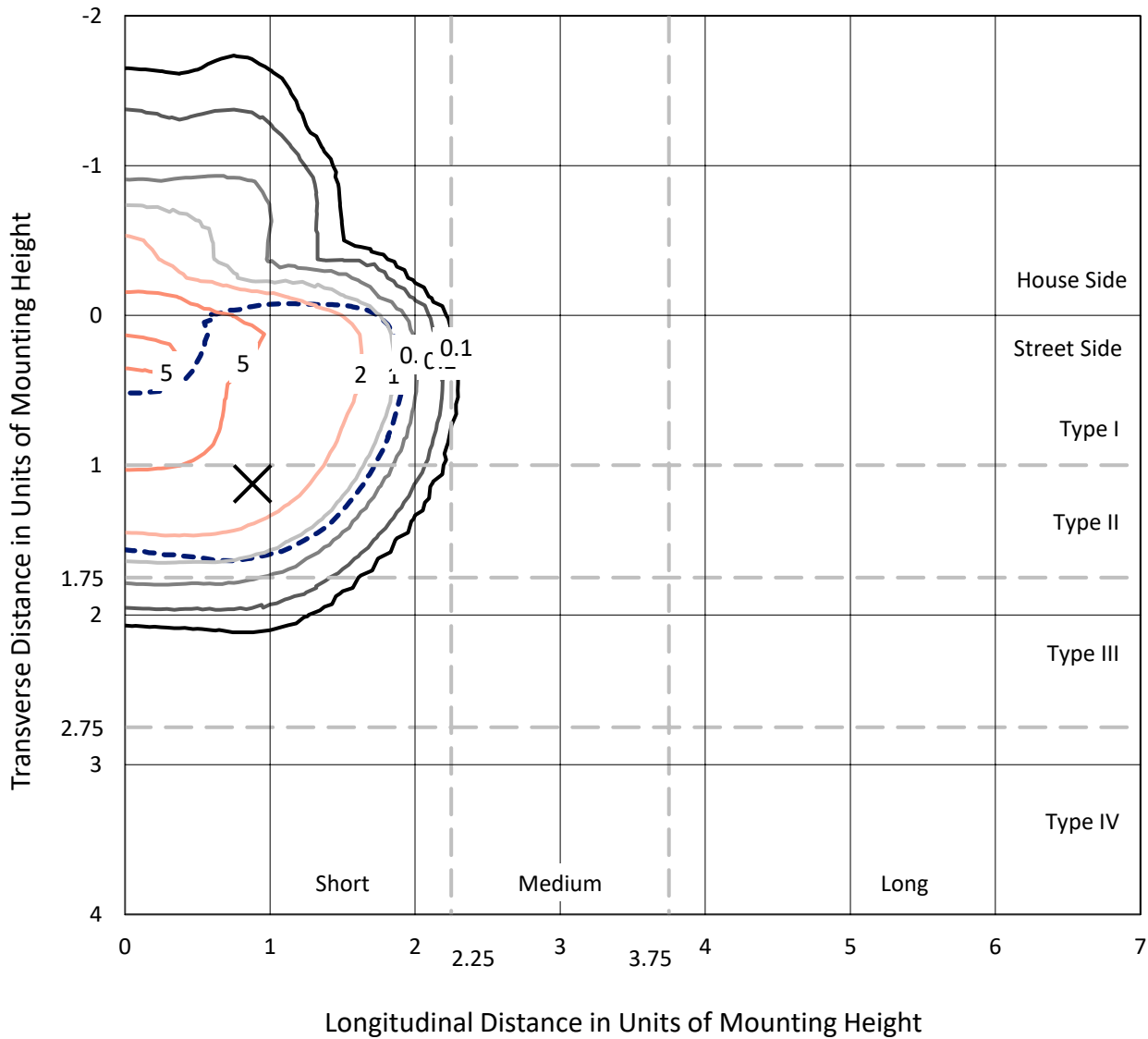
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

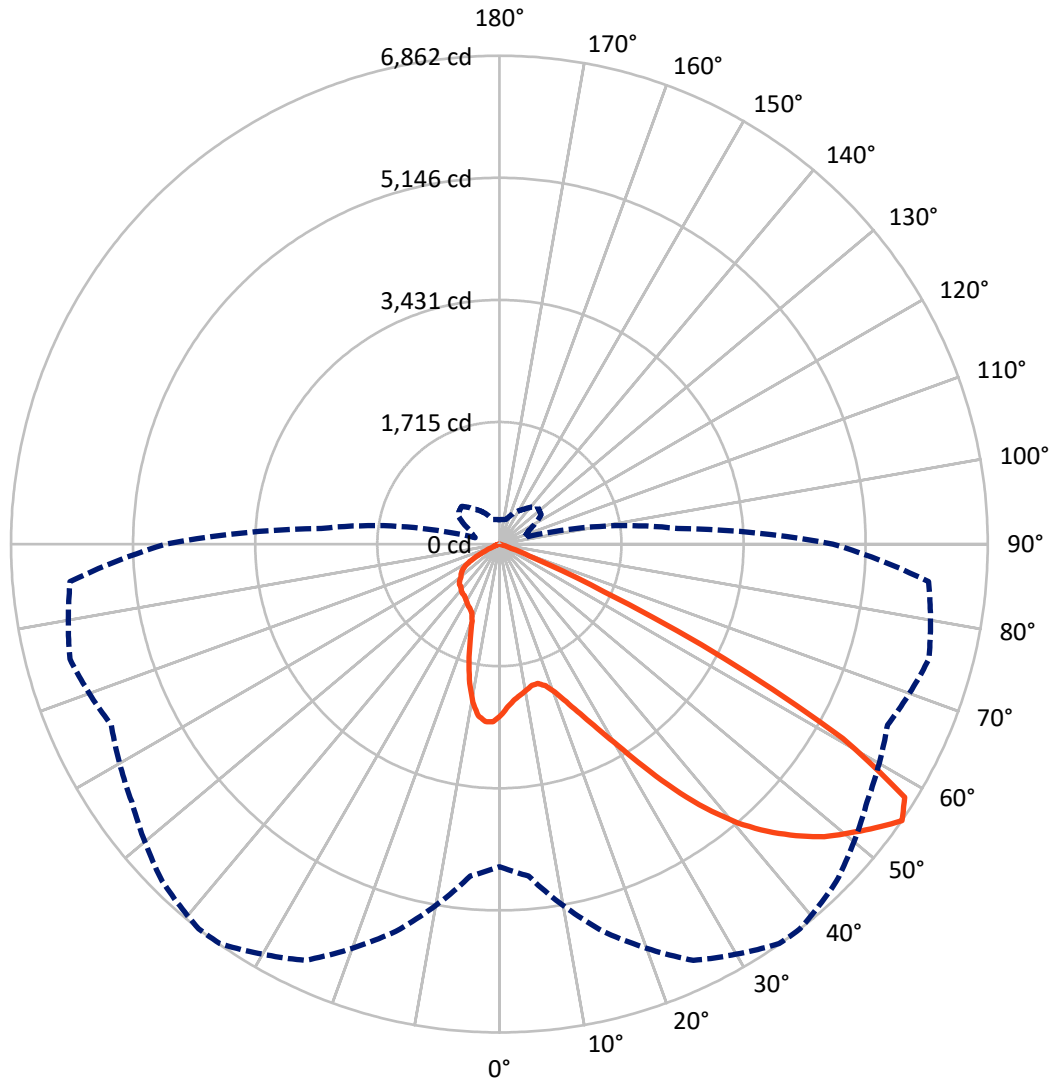
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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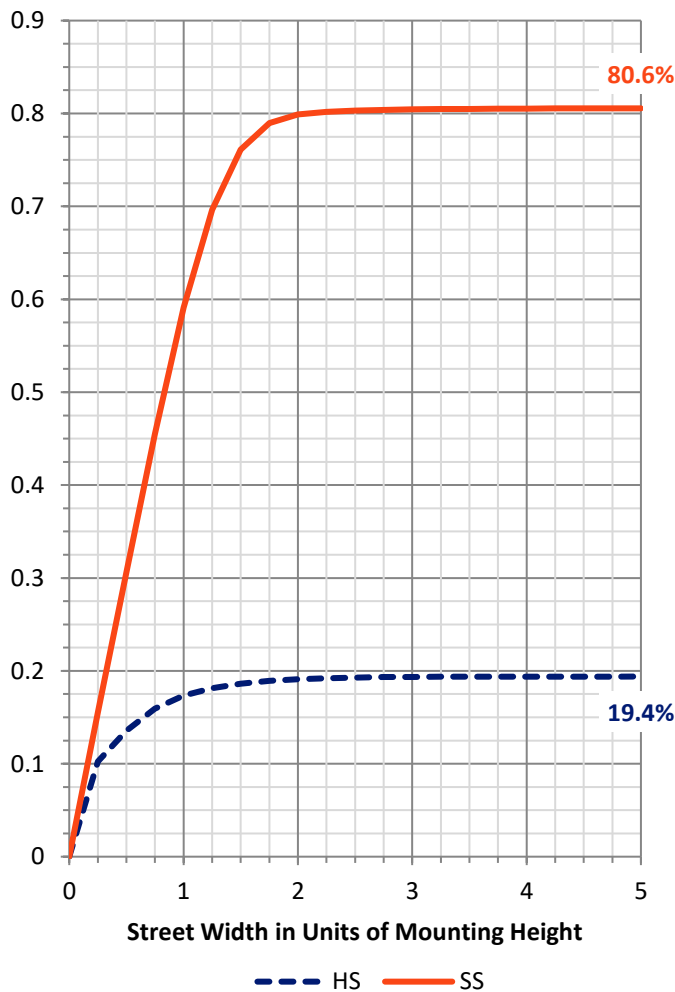
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.2	0.0	1955.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8080.0	0.0	8080.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	10035.2	0.0	10035.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	2.2
10°-20°	599.0	6.0
20°-30°	1028.0	10.2
30°-40°	1705.0	17.0
40°-50°	2506.4	25.0
50°-60°	2928.8	29.2
60°-70°	992.8	9.9
70°-80°	50.7	0.5
80°-90°	2.0	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°	10035.2	100.0
0°-180°	10035.2	100.0

Coefficient of Utilization



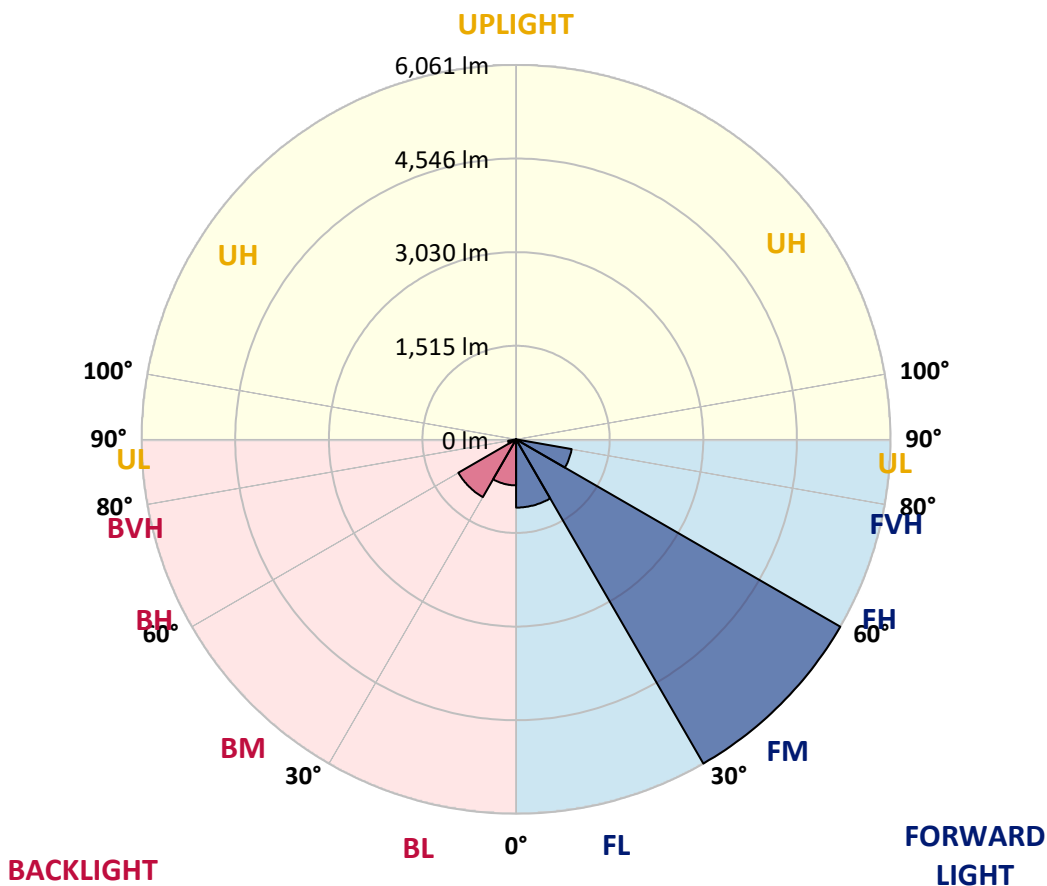
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.6	11.0			
FM (30°-60°)	6061.0	60.4			
FH (60°-80°)	913.4	9.1			G1/1800
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	744.9	7.4	B2/1000		
BM (30°-60°)	1079.2	10.8	B2/2500		
BH (60°-80°)	130.2	1.3	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5
2.5°	2241.3	2236.8	2245.9	2264.3	2281.5	2287.2	2304.4	2328.5	2343.4	2379.0	2407.7
5°	2140.4	2138.1	2147.3	2163.3	2186.3	2194.3	2220.7	2260.8	2301.0	2362.9	2423.7
7.5°	2048.6	2047.5	2061.3	2096.8	2130.1	2140.4	2172.5	2221.8	2275.8	2371.0	2460.4
10°	1928.2	1929.3	1955.7	2006.2	2067.0	2087.6	2139.3	2210.4	2280.3	2403.1	2527.0
12.5°	1889.2	1891.5	1905.3	1944.3	2010.8	2037.2	2109.4	2217.3	2306.7	2449.0	2613.0
15°	1984.4	1984.4	1972.9	1977.5	2007.3	2031.4	2107.1	2240.2	2351.5	2504.0	2697.9
17.5°	2169.1	2162.2	2133.5	2094.5	2084.2	2092.2	2153.0	2289.5	2414.5	2568.3	2794.2
20°	2419.1	2421.4	2365.2	2283.8	2218.4	2217.3	2254.0	2376.7	2505.2	2645.1	2898.6
22.5°	2722.0	2712.8	2638.2	2527.0	2413.4	2404.2	2419.1	2509.8	2635.9	2766.7	3027.1
25°	3073.0	3068.4	2962.8	2813.7	2663.5	2641.7	2641.7	2731.1	2822.9	2939.9	3180.8
27.5°	3440.0	3440.0	3337.9	3165.9	2966.3	2927.3	2921.5	3027.1	3087.9	3110.8	3310.4
30°	3817.4	3812.8	3711.9	3535.2	3321.9	3281.7	3265.7	3343.7	3387.2	3318.4	3472.1
32.5°	4200.5	4208.5	4106.5	3942.4	3752.0	3725.6	3676.3	3676.3	3711.9	3615.5	3726.8
35°	4612.3	4610.0	4529.7	4418.4	4255.6	4225.7	4144.3	4017.0	4070.9	4028.5	4078.9
37.5°	4975.9	4993.1	4954.1	4871.5	4739.6	4709.8	4575.6	4345.0	4386.3	4452.9	4497.6
40°	5345.3	5359.0	5398.0	5371.7	5205.3	5150.3	4911.7	4533.2	4579.0	4807.3	4935.8
42.5°	5707.7	5714.6	5793.8	5837.4	5614.8	5518.5	5166.3	4647.9	4696.0	5084.9	5309.7
45°	5938.3	5953.2	6084.0	6217.0	5976.1	5844.2	5387.7	4794.7	4815.3	5277.6	5586.1
47.5°	5929.1	5963.5	6209.0	6451.0	6287.0	6144.8	5653.8	5029.8	4995.4	5458.8	5768.5
50°	5744.4	5785.7	6137.9	6522.1	6510.7	6378.8	5949.8	5370.5	5262.7	5619.4	5791.5
52.5°	5361.3	5480.6	6012.9	6531.3	6690.8	6624.2	6315.7	5829.3	5624.0	5850.0	5828.2
55°	4533.2	4680.0	5633.2	6453.3	6853.6	6861.7	6699.9	6307.6	6016.3	6246.9	6054.1
57.5°	3441.2	3558.2	4335.9	5744.4	6584.1	6716.0	6849.1	6560.0	6258.3	6517.6	6106.9
60°	2073.9	2209.2	2715.1	4215.4	5317.7	5542.6	6064.5	6008.3	5644.6	5755.9	5008.0
62.5°	840.8	911.9	1253.7	2322.8	3347.1	3557.0	4057.1	4142.0	4052.5	3939.0	3037.4
65°	307.4	336.1	502.4	960.1	1539.3	1616.2	1880.0	2030.3	2154.2	1834.1	1129.8
67.5°	190.4	208.8	326.9	493.2	559.8	520.8	529.9	632.0	603.4	372.8	201.9
70°	141.1	156.0	255.8	341.8	226.0	174.4	118.1	126.2	113.6	99.8	98.6
72.5°	97.5	111.3	191.6	201.9	87.2	61.9	43.6	60.8	68.8	67.7	70.0
75°	64.2	74.6	120.4	79.1	21.8	17.2	14.9	32.1	41.3	41.3	42.4
77.5°	37.9	43.6	42.4	16.1	4.6	4.6	3.4	5.7	9.2	10.3	12.6
80°	4.6	3.4	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	3.4
82.5°	1.1	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4
85°	0.0	0.0	1.1	1.1	2.3	2.3	2.3	2.3	2.3	3.4	3.4
87.5°	0.0	0.0	1.1	1.1	2.3	2.3	2.3	2.3	2.3	3.4	3.4
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°	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5	2406.5
2.5°	2429.5	2421.4	2454.7	2478.8	2498.3	2507.5	2494.8	2493.7	2493.7	2468.5	2461.6
5°	2458.1	2461.6	2508.6	2529.3	2532.7	2521.2	2492.5	2473.0	2461.6	2435.2	2420.3
7.5°	2513.2	2524.7	2569.4	2566.0	2535.0	2482.2	2406.5	2348.0	2310.2	2268.9	2243.6
10°	2592.3	2614.1	2641.7	2593.5	2494.8	2360.6	2204.6	2093.4	2026.8	1979.8	1951.1
12.5°	2688.7	2710.5	2701.3	2587.8	2382.4	2142.7	1942.0	1781.4	1704.5	1662.1	1632.3
15°	2786.2	2800.0	2740.3	2518.9	2184.0	1861.7	1638.0	1478.6	1384.5	1350.1	1324.8
17.5°	2886.0	2882.5	2747.2	2383.6	1919.0	1545.1	1324.8	1215.9	1189.5	1183.8	1181.5
20°	2990.4	2959.4	2719.7	2189.7	1600.1	1231.9	1106.9	1113.8	1162.0	1184.9	1189.5
22.5°	3109.7	3031.7	2650.8	1927.0	1274.4	1026.6	1039.2	1106.9	1172.3	1203.3	1207.8
25°	3237.0	3098.2	2536.1	1589.8	1004.8	944.0	1018.6	1096.6	1166.6	1204.4	1209.0
27.5°	3320.7	3114.2	2348.0	1250.3	862.6	911.9	991.1	1065.6	1137.9	1179.2	1184.9
30°	3411.3	3107.4	2092.2	963.5	814.4	884.4	953.2	1020.9	1087.4	1133.3	1137.9
32.5°	3544.4	3102.8	1780.2	782.3	794.9	862.6	913.1	969.3	1015.1	1041.5	1038.1
35°	3718.7	3097.0	1416.6	705.4	783.4	845.4	885.5	911.9	861.4	845.4	848.8
37.5°	3942.4	3110.8	1110.3	673.3	780.0	840.8	875.2	799.5	721.5	691.7	687.1
40°	4190.2	3146.4	846.5	660.7	791.5	852.3	836.2	711.2	614.8	556.3	543.7
42.5°	4439.1	3185.4	669.9	656.1	811.0	884.4	772.0	646.9	502.4	469.1	464.6
45°	4623.8	3178.5	579.3	648.1	828.2	902.7	754.8	555.2	448.5	433.6	434.7
47.5°	4716.7	3102.8	529.9	629.7	835.1	884.4	712.3	517.3	411.8	427.9	441.6
50°	4667.4	2906.6	484.1	594.2	820.1	860.3	644.6	488.6	393.4	460.0	490.9
52.5°	4607.7	2665.8	433.6	539.1	784.6	827.0	618.3	480.6	382.0	443.9	466.9
55°	4686.9	2513.2	351.0	454.2	714.6	749.0	597.6	479.5	355.6	345.3	341.8
57.5°	4575.6	2209.2	251.2	326.9	548.3	593.0	582.7	471.4	315.4	314.3	318.9
60°	3536.4	1347.8	172.1	207.6	336.1	378.5	528.8	450.8	271.9	250.1	251.2
62.5°	2009.6	573.5	118.1	128.5	172.1	204.2	403.8	409.5	251.2	238.6	251.2
65°	699.7	205.3	91.8	86.0	95.2	109.0	231.7	316.6	228.3	206.5	208.8
67.5°	144.5	102.1	81.4	71.1	71.1	71.1	118.1	197.3	188.1	164.0	166.3
70°	91.8	87.2	71.1	60.8	58.5	53.9	67.7	109.0	129.6	119.3	120.4
72.5°	67.7	66.5	56.2	49.3	43.6	39.0	42.4	53.9	66.5	68.8	70.0
75°	41.3	42.4	36.7	31.0	27.5	24.1	25.2	25.2	25.2	22.9	25.2
77.5°	12.6	13.8	11.5	9.2	8.0	8.0	8.0	6.9	5.7	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	2.3	2.3	1.1	1.1	0.0	0.0
82.5°	3.4	3.4	3.4	3.4	2.3	2.3	1.1	1.1	0.0	0.0	0.0
85°	3.4	3.4	3.4	3.4	2.3	2.3	1.1	1.1	0.0	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	2.3	2.3	1.1	1.1	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)