

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: P637073

Luminaire Tested: GWS-SA4C-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14535.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

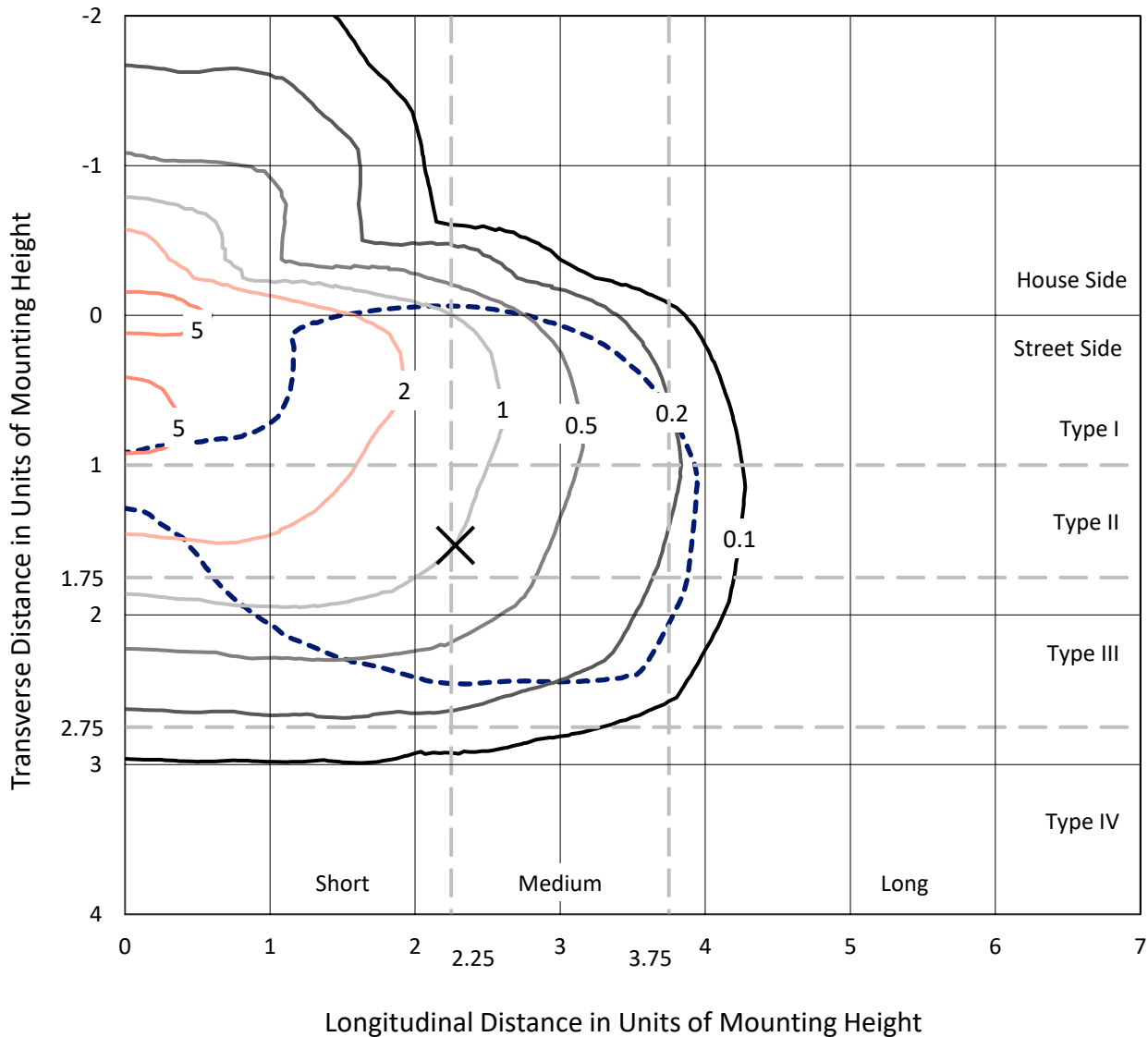
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637073
 CATALOG NUMBER: GWS-SA4C-722-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

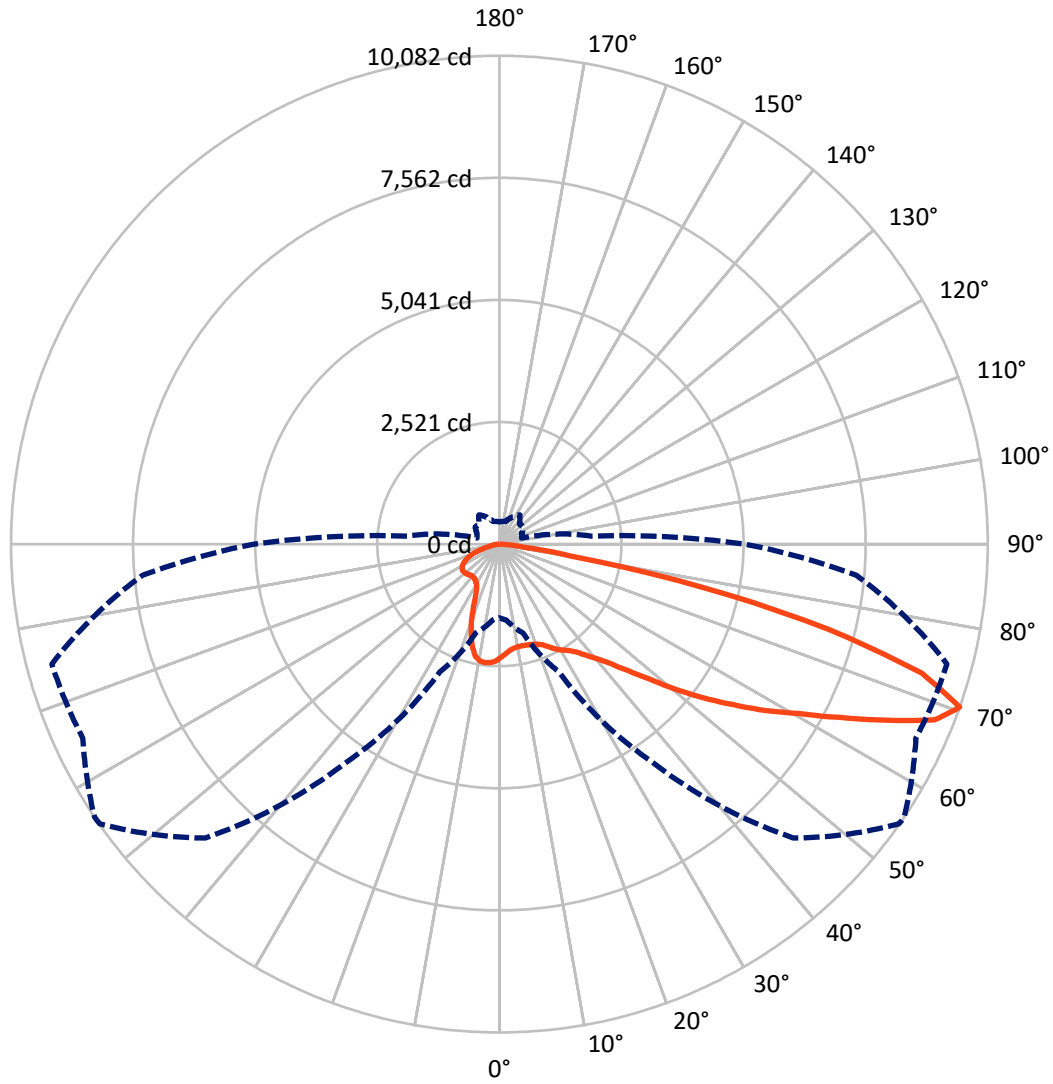
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P637073
CATALOG NUMBER: GWS-SA4C-722-U-T3R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P637073

CATALOG NUMBER: GWS-SA4C-722-U-T3R-W

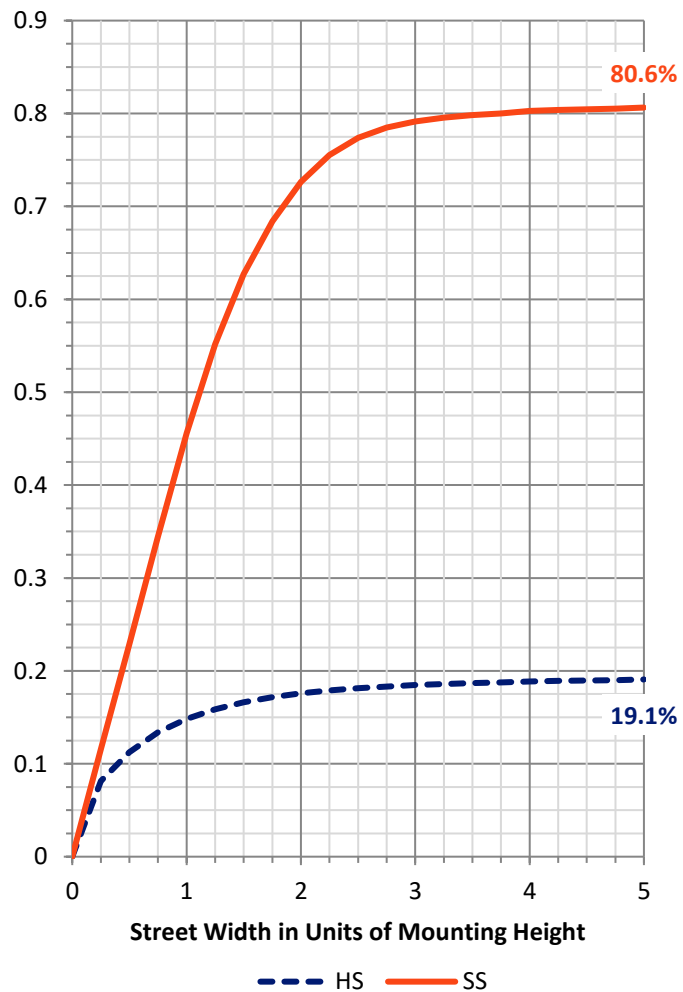
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2794.5	0.0	2794.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	11741.3	0.0	11741.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	14535.8	0.0	14535.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	1.5
10°-20°	588.3	4.0
20°-30°	972.6	6.7
30°-40°	1454.2	10.0
40°-50°	2164.1	14.9
50°-60°	3076.7	21.2
60°-70°	3810.6	26.2
70°-80°	2104.1	14.5
80°-90°	148.2	1.0
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°	14535.8	100.0
0°-180°	14535.8	100.0

Coefficient of Utilization



REPORT NUMBER: P637073

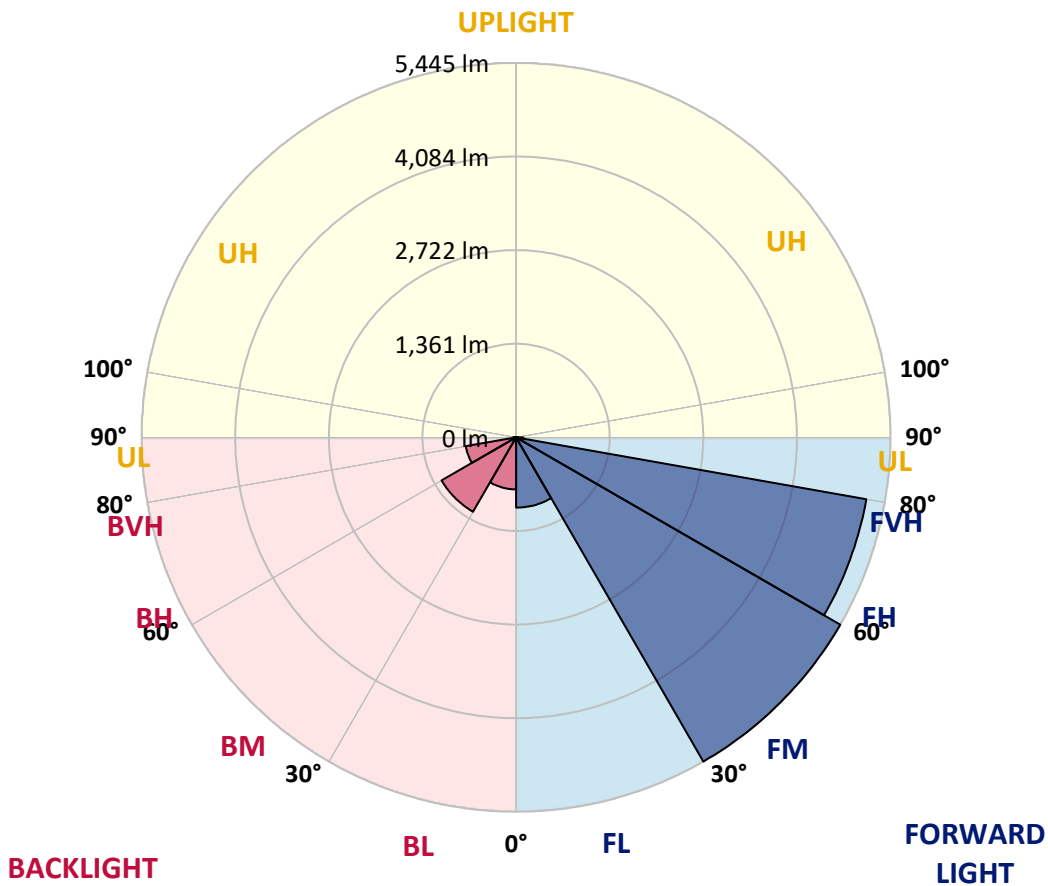
CATALOG NUMBER: GWS-SA4C-722-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.6	7.0			
FM (30°-60°)	5444.9	37.5			
FH (60°-80°)	5171.9	35.6			G3/7500
FVH (80°-90°)	103.0	0.7			G2/225
BL (0°-30°)	756.5	5.2	B2/1000		
BM (30°-60°)	1250.1	8.6	B2/2500		
BH (60°-80°)	742.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	45.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P637073
 CATALOG NUMBER: GWS-SA4C-722-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3
2.5°	2195.6	2183.3	2197.7	2204.8	2223.3	2249.9	2273.5	2274.5	2286.8	2316.6	2345.3
5°	2096.2	2090.0	2094.1	2115.7	2135.1	2169.0	2204.8	2207.9	2242.8	2301.2	2358.6
7.5°	2019.3	2011.1	2026.5	2054.2	2078.8	2116.7	2163.8	2167.9	2217.1	2305.3	2393.5
10°	1908.6	1902.5	1931.2	1968.1	2021.4	2083.9	2146.4	2151.5	2216.1	2332.0	2455.0
12.5°	1860.4	1860.4	1872.7	1907.6	1966.0	2049.0	2143.3	2151.5	2232.5	2373.0	2533.9
15°	1935.3	1940.4	1930.1	1928.1	1951.7	2030.6	2147.4	2159.7	2263.3	2415.0	2611.8
17.5°	2085.9	2091.1	2064.4	2022.4	1998.8	2048.0	2162.8	2176.1	2296.1	2461.1	2695.8
20°	2297.1	2303.3	2244.8	2180.2	2099.3	2098.2	2192.5	2204.8	2338.1	2511.3	2785.0
22.5°	2544.1	2548.2	2474.4	2371.9	2247.9	2191.5	2243.8	2256.1	2392.4	2581.0	2881.4
25°	2830.1	2842.4	2753.2	2604.6	2436.5	2319.7	2328.9	2343.2	2489.8	2674.3	2995.1
27.5°	3135.6	3151.0	3048.4	2884.4	2652.8	2461.1	2438.6	2450.9	2593.3	2731.7	3055.6
30°	3448.2	3459.5	3357.0	3169.4	2885.5	2621.0	2530.8	2538.0	2638.4	2759.4	3117.1
32.5°	3795.7	3786.5	3688.1	3471.8	3154.0	2812.7	2616.9	2614.9	2688.7	2814.7	3205.3
35°	4121.7	4135.0	4030.4	3791.6	3449.2	3049.5	2746.1	2737.9	2795.3	2904.9	3329.3
37.5°	4516.3	4512.2	4387.1	4128.8	3745.5	3276.0	2927.5	2913.1	2933.6	3045.4	3502.5
40°	4798.2	4826.9	4745.9	4505.0	4091.9	3554.8	3139.7	3107.9	3113.0	3218.6	3734.2
42.5°	5028.8	5055.5	5063.7	4909.9	4488.6	3899.2	3404.1	3372.4	3375.4	3525.1	4019.2
45°	5206.1	5242.0	5357.9	5312.7	4935.5	4296.9	3761.9	3729.1	3731.1	3897.2	4363.6
47.5°	5278.9	5317.9	5552.6	5660.2	5410.1	4772.6	4206.7	4158.6	4165.7	4349.2	4757.2
50°	5255.3	5307.6	5625.4	5927.8	5807.8	5256.4	4738.7	4704.9	4677.2	4943.7	5184.6
52.5°	5052.4	5109.8	5618.2	6097.9	6132.8	5713.5	5288.1	5268.7	5262.5	5575.2	5662.3
55°	4454.8	4551.1	5371.2	6143.0	6387.0	6144.1	5883.7	5850.9	5882.7	6251.7	6145.1
57.5°	4123.7	4195.5	4887.4	6092.8	6595.1	6554.1	6478.2	6481.3	6517.2	6986.6	6730.4
60°	3935.1	4019.2	4618.8	5955.4	6794.9	7052.2	7100.4	7100.4	7165.0	7779.0	7324.9
62.5°	3685.0	3770.1	4367.7	5691.0	6979.5	7638.5	7882.5	7879.4	7905.1	8628.7	7906.1
65°	3177.6	3256.5	3863.4	5273.8	7069.7	8284.3	8771.2	8762.0	8710.7	9385.2	8290.5
67.5°	2307.4	2382.2	2959.3	4480.4	6744.7	8805.0	9686.6	9690.7	9384.2	9861.8	8311.0
70°	1521.1	1572.4	1902.5	2910.1	5485.0	8580.6	10069.9	10082.2	9487.7	9564.6	7396.6
72.5°	949.2	985.1	1188.0	1735.4	3241.2	6791.9	9085.9	9119.7	8535.5	8405.3	6077.4
75°	630.4	655.0	790.3	1011.7	1499.6	3675.8	6906.7	7015.3	6841.1	6588.9	4234.4
77.5°	379.3	399.8	503.3	642.7	664.2	1436.1	4031.5	4312.3	4336.9	3440.0	1773.3
80°	173.2	196.8	277.8	367.0	353.6	500.2	1421.7	1487.3	1754.9	1092.7	559.7
82.5°	102.5	112.8	184.5	182.5	150.7	242.9	511.5	524.8	445.9	399.8	238.8
85°	41.0	48.2	77.9	68.7	55.4	78.9	192.7	201.9	193.7	174.3	88.2
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	17.4	18.5	26.7	48.2	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637073
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3
2.5°	2363.7	2357.6	2388.3	2411.9	2422.2	2432.4	2423.2	2420.1	2420.1	2399.6	2389.4
5°	2389.4	2392.4	2434.5	2453.9	2453.9	2445.7	2421.1	2403.7	2397.6	2370.9	2363.7
7.5°	2437.5	2450.9	2489.8	2488.8	2460.1	2415.0	2353.5	2306.3	2263.3	2244.8	2233.5
10°	2516.5	2533.9	2560.5	2517.5	2437.5	2318.6	2188.4	2085.9	2024.4	1975.2	1975.2
12.5°	2606.7	2623.1	2617.9	2518.5	2353.5	2131.0	1943.5	1825.6	1739.5	1694.4	1694.4
15°	2696.9	2710.2	2654.8	2471.4	2178.2	1882.0	1677.0	1535.5	1460.7	1418.6	1418.6
17.5°	2788.1	2787.1	2670.2	2362.7	1949.6	1606.2	1405.3	1295.6	1270.0	1262.8	1261.8
20°	2876.2	2852.7	2650.7	2181.3	1684.1	1328.4	1201.3	1208.5	1246.4	1262.8	1264.9
22.5°	2975.7	2917.2	2593.3	1949.6	1382.8	1135.7	1143.9	1203.4	1258.7	1283.3	1286.4
25°	3077.2	2972.6	2497.0	1678.0	1130.6	1065.0	1128.6	1195.2	1257.7	1289.5	1292.6
27.5°	3118.2	2972.6	2333.0	1363.3	996.3	1035.3	1105.0	1169.6	1235.2	1272.1	1279.2
30°	3152.0	2947.0	2103.4	1079.4	941.0	1006.6	1067.1	1126.5	1191.1	1236.2	1244.4
32.5°	3199.1	2924.4	1825.6	907.2	915.4	978.9	1020.9	1071.2	1129.6	1159.3	1156.2
35°	3254.5	2889.6	1490.4	825.2	893.8	955.3	985.1	1014.8	988.1	987.1	990.2
37.5°	3333.4	2858.8	1198.3	788.3	879.5	938.9	963.5	900.0	863.1	847.7	841.6
40°	3447.2	2846.5	945.1	766.7	877.4	937.9	920.5	822.1	771.9	718.5	717.5
42.5°	3590.7	2837.3	781.1	756.5	884.6	961.5	861.0	770.8	667.3	643.7	641.7
45°	3775.2	2822.9	699.1	754.4	902.0	979.9	854.9	700.1	629.4	619.1	619.1
47.5°	3997.6	2800.4	662.2	754.4	921.5	971.7	836.4	684.7	611.9	623.2	630.4
50°	4252.9	2771.7	642.7	752.4	941.0	971.7	797.5	681.6	607.8	666.3	689.8
52.5°	4525.5	2738.9	629.4	744.2	954.3	972.8	799.5	691.9	611.9	676.5	696.0
55°	4826.9	2733.8	610.9	726.7	958.4	946.1	804.7	714.4	618.1	613.0	614.0
57.5°	5207.2	2795.3	597.6	701.1	942.0	891.8	814.9	730.8	610.9	611.9	619.1
60°	5604.9	2911.1	608.9	676.5	908.2	840.5	822.1	722.6	576.1	559.7	561.7
62.5°	5943.1	2999.2	618.1	665.2	859.0	795.4	814.9	704.2	556.6	552.5	561.7
65°	6084.6	2926.5	595.5	641.7	787.2	740.1	799.5	680.6	540.2	524.8	525.8
67.5°	5927.8	2585.1	551.5	589.4	706.2	669.3	774.9	649.9	517.6	499.2	495.1
70°	5063.7	1899.4	475.6	506.4	607.8	586.3	737.0	609.9	481.8	468.4	459.2
72.5°	4080.7	1344.8	394.6	402.8	476.6	494.1	671.4	559.7	440.8	402.8	389.5
75°	2840.4	844.6	329.0	320.8	344.4	377.2	523.8	464.3	380.3	340.3	328.0
77.5°	1221.8	433.6	257.3	253.2	229.6	261.4	401.8	387.5	318.8	272.7	265.5
80°	409.0	251.1	185.5	178.4	152.7	183.5	282.9	309.6	250.1	201.9	189.6
82.5°	205.0	145.6	117.9	106.6	102.5	115.8	167.1	192.7	173.2	139.4	117.9
85°	100.5	83.0	64.6	63.6	53.3	50.2	69.7	82.0	77.9	57.4	54.3
87.5°	36.9	32.8	20.5	16.4	10.3	7.2	4.1	4.1	3.1	3.1	3.1
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)