

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: P632608

Luminaire Tested: GWS-SA2D-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7569.4 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

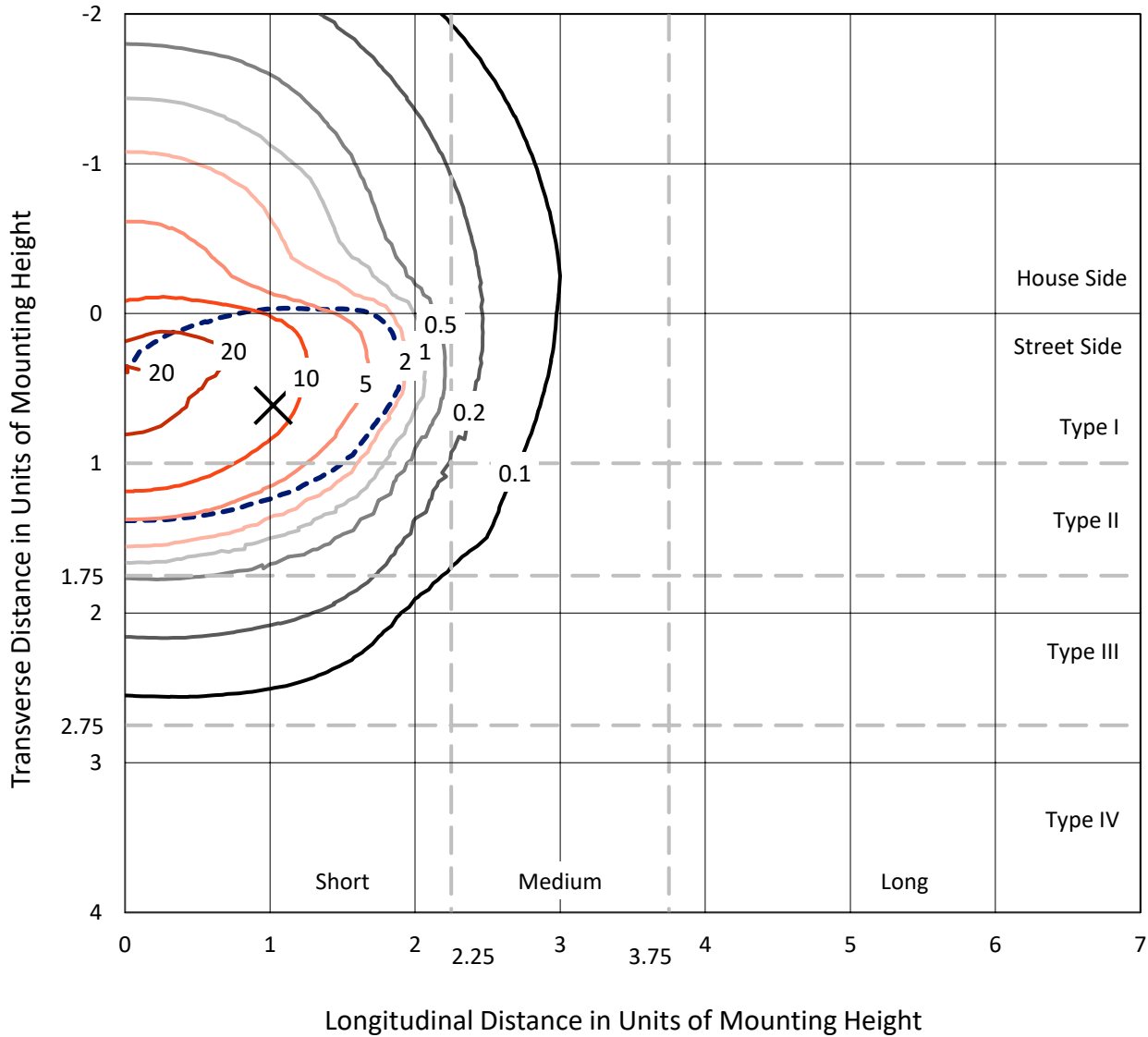
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

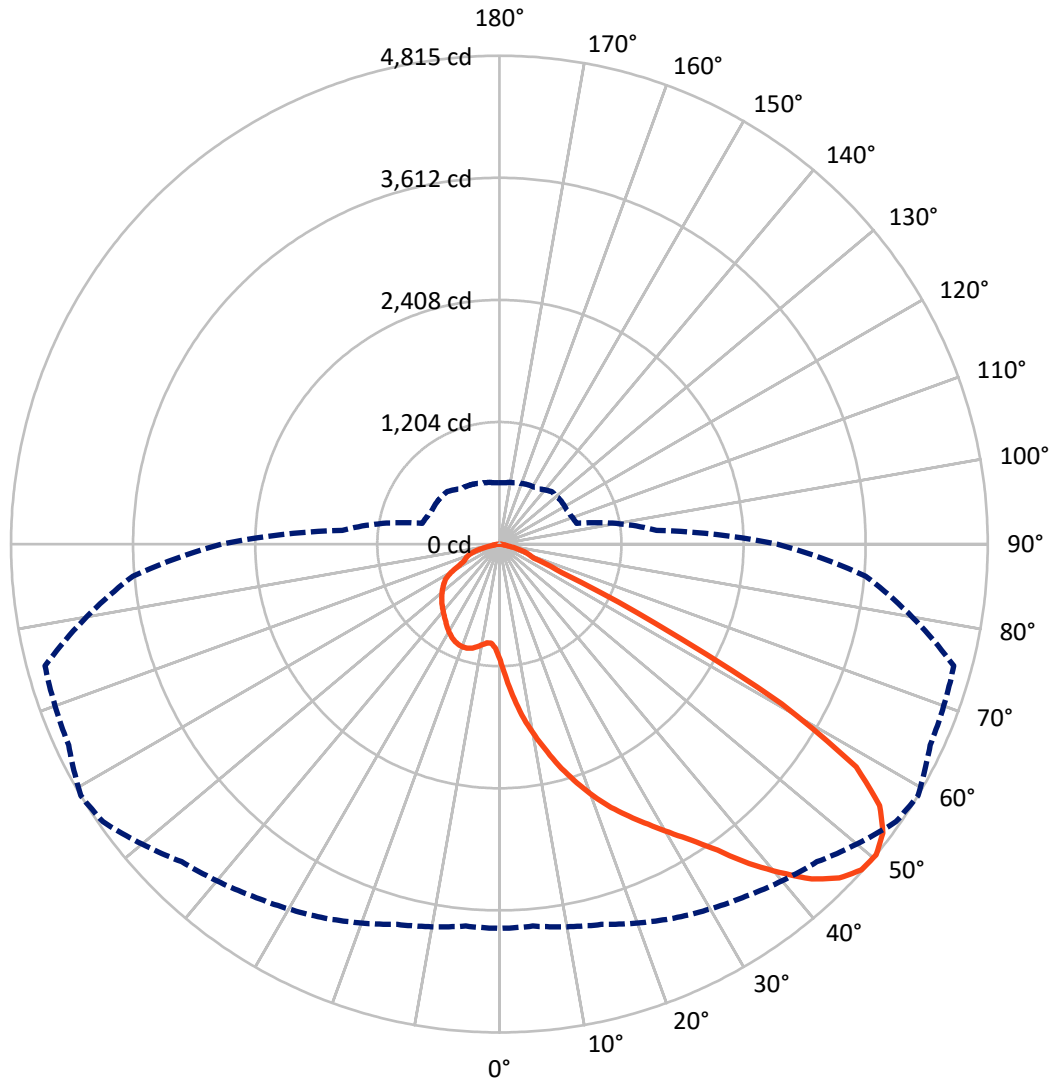
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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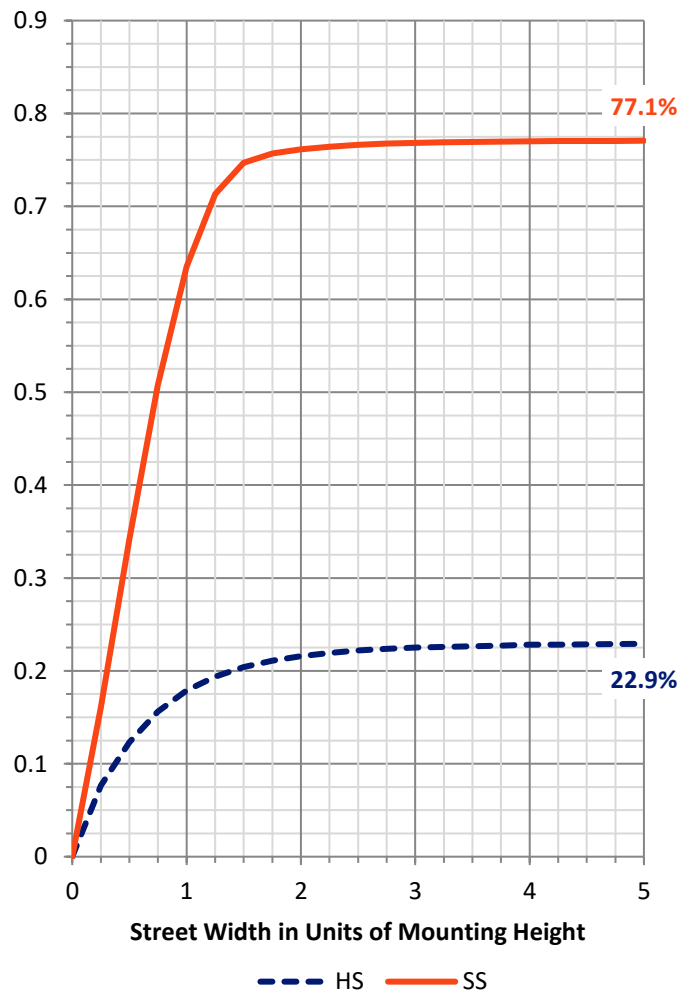
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.1	0.0	1741.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5828.3	0.0	5828.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	7569.4	0.0	7569.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.7
10°-20°	467.0	6.2
20°-30°	884.4	11.7
30°-40°	1466.6	19.4
40°-50°	2003.4	26.5
50°-60°	1818.6	24.0
60°-70°	605.6	8.0
70°-80°	176.6	2.3
80°-90°	18.5	0.2
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°	7569.4	100.0
0°-180°	7569.4	100.0

Coefficient of Utilization



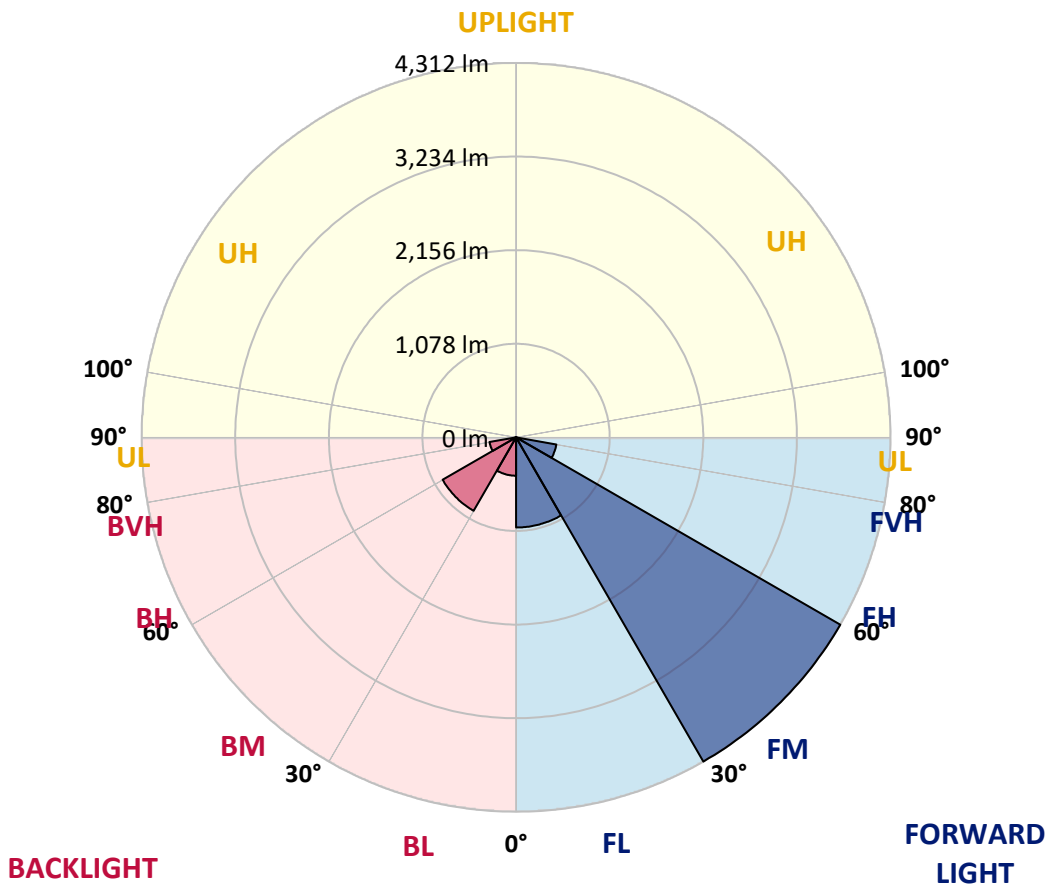
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.9	13.7			
FM (30°-60°)	4311.6	57.0			
FH (60°-80°)	471.5	6.2			G0/660
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	442.1	5.8	B1/500		
BM (30°-60°)	976.9	12.9	B1/1000		
BH (60°-80°)	310.8	4.1	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1485.9	1497.0	1479.8	1481.0	1437.8	1418.1	1362.6	1329.9	1308.4	1247.9	1193.1
5°	1785.6	1772.6	1759.1	1751.1	1713.4	1660.4	1591.4	1536.5	1485.9	1367.5	1253.5
7.5°	1969.3	1962.5	1953.3	1948.4	1911.4	1855.9	1786.8	1740.0	1666.6	1506.3	1326.9
10°	2125.3	2117.3	2111.7	2115.4	2085.2	2049.5	1974.3	1920.6	1838.0	1653.0	1415.6
12.5°	2246.2	2250.5	2252.3	2272.1	2259.1	2237.5	2159.8	2103.1	2011.2	1807.8	1519.8
15°	2341.7	2340.5	2362.1	2399.7	2420.6	2407.1	2344.8	2297.3	2185.1	1960.1	1632.1
17.5°	2363.9	2365.2	2399.1	2465.0	2533.5	2566.8	2531.6	2474.9	2363.9	2110.5	1748.6
20°	2381.8	2384.3	2419.4	2494.6	2594.5	2687.6	2693.2	2652.5	2556.9	2273.3	1867.0
22.5°	2494.6	2500.2	2509.4	2556.9	2646.9	2764.7	2829.4	2820.8	2740.6	2444.1	1994.6
25°	2791.2	2774.6	2729.5	2716.0	2750.5	2846.1	2956.4	2973.1	2933.6	2632.1	2132.1
27.5°	3157.4	3139.6	3073.0	3002.7	2928.1	2961.4	3079.1	3129.1	3129.7	2839.3	2270.2
30°	3489.8	3475.6	3421.3	3320.8	3192.0	3143.9	3230.8	3298.0	3338.1	3078.5	2427.4
32.5°	3774.0	3761.1	3687.7	3605.7	3479.9	3383.1	3414.6	3479.3	3573.0	3388.0	2622.9
35°	4013.2	4000.3	3930.0	3847.4	3730.9	3672.9	3661.8	3706.2	3827.7	3711.1	2847.3
37.5°	4207.5	4194.5	4121.1	4043.5	3954.7	3958.4	3975.0	3996.6	4066.3	4057.0	3087.2
40°	4333.2	4319.7	4267.3	4211.8	4155.7	4200.1	4282.7	4256.8	4293.8	4336.3	3307.9
42.5°	4389.4	4372.1	4341.9	4329.5	4312.3	4381.3	4540.4	4514.5	4470.1	4522.5	3471.9
45°	4333.2	4318.4	4317.8	4355.4	4395.5	4484.3	4718.6	4697.6	4585.4	4612.5	3569.9
47.5°	4161.2	4148.3	4183.4	4282.1	4380.7	4510.2	4798.1	4801.8	4667.4	4650.2	3633.4
50°	3789.4	3780.8	3882.5	4069.4	4239.5	4429.4	4772.9	4815.4	4687.2	4638.4	3625.4
52.5°	3033.5	3073.6	3294.9	3606.9	3937.4	4287.6	4679.1	4734.6	4592.2	4561.4	3582.3
55°	2076.6	2095.1	2316.4	2772.1	3296.2	3980.6	4464.0	4549.7	4480.0	4548.4	3627.3
57.5°	1075.3	1090.1	1264.6	1669.1	2235.7	3145.7	3866.5	4147.7	4253.7	4613.8	3767.2
60°	441.5	453.8	525.9	721.4	1127.7	1831.8	2782.6	3199.4	3448.5	4213.6	3345.5
62.5°	320.6	326.8	361.3	430.4	590.7	897.7	1574.7	1728.2	1903.3	2640.8	2124.1
65°	270.1	276.8	304.6	346.5	431.0	550.6	672.7	676.4	745.4	1075.9	787.4
67.5°	226.3	232.4	257.1	292.9	348.4	390.9	361.3	361.9	360.7	390.3	377.3
70°	176.3	181.3	205.9	244.2	273.1	250.9	282.4	312.6	299.7	311.4	329.2
72.5°	128.9	134.4	156.0	185.0	177.6	178.8	228.7	259.6	252.2	265.1	281.8
75°	93.1	96.8	107.9	92.5	97.4	117.8	160.9	177.6	185.0	196.1	210.9
77.5°	30.2	30.2	33.9	42.5	53.0	65.4	82.0	88.8	99.9	112.2	122.7
80°	15.4	16.0	19.1	23.4	29.6	37.6	48.1	51.2	56.7	63.5	67.8
82.5°	7.4	8.0	9.2	11.7	15.4	19.7	26.5	29.6	33.3	37.6	40.7
85°	1.8	1.8	2.5	3.7	4.9	7.4	9.9	11.7	14.8	17.9	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.5	3.1	3.7	4.9
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°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1168.4	1133.9	1089.5	1051.9	1017.3	990.8	968.0	956.9	946.4	939.0	941.5
5°	1200.5	1141.3	1058.6	1001.3	966.2	948.3	936.0	929.8	928.6	923.6	921.8
7.5°	1247.3	1162.8	1052.5	994.5	971.1	961.8	955.1	951.4	953.2	948.3	946.4
10°	1305.3	1198.6	1067.9	1016.7	996.4	989.6	982.2	977.3	974.8	967.4	966.2
12.5°	1377.4	1243.0	1095.6	1045.1	1024.7	1013.0	1003.2	994.5	989.0	979.7	977.3
15°	1455.1	1292.3	1128.3	1072.8	1048.8	1031.5	1015.5	1002.5	992.7	980.3	978.5
17.5°	1539.6	1344.1	1155.4	1091.9	1061.1	1038.3	1014.9	995.8	982.2	966.2	964.3
20°	1627.7	1396.5	1175.8	1101.2	1061.7	1030.9	999.5	974.2	956.9	940.9	939.7
22.5°	1719.0	1444.6	1188.1	1098.7	1051.9	1013.6	976.0	947.7	927.3	908.2	907.0
25°	1810.9	1490.9	1191.2	1088.9	1032.1	987.7	950.1	916.8	894.0	872.4	870.0
27.5°	1904.0	1529.7	1183.8	1069.1	1005.6	957.5	919.9	887.2	863.8	842.2	838.5
30°	2003.2	1563.0	1167.8	1043.2	974.8	925.5	888.5	863.8	841.6	820.0	816.3
32.5°	2109.3	1592.0	1145.0	1011.8	939.0	893.4	866.3	844.1	821.9	802.8	799.1
35°	2235.7	1611.1	1111.1	971.1	905.7	870.0	851.5	825.6	798.5	777.5	775.6
37.5°	2366.4	1625.9	1070.4	932.3	876.8	856.4	841.0	805.9	771.9	746.7	743.6
40°	2492.8	1638.2	1019.8	895.9	850.2	846.5	825.6	781.8	723.2	694.9	692.4
42.5°	2610.6	1641.9	966.8	857.0	826.2	824.4	800.9	733.1	688.1	670.2	667.7
45°	2691.3	1638.8	911.9	820.7	802.2	792.3	767.6	698.0	670.2	654.2	651.1
47.5°	2751.1	1622.8	850.2	782.4	775.0	761.5	708.4	675.8	649.9	633.8	630.7
50°	2740.6	1556.2	788.0	745.4	742.3	730.6	665.3	648.0	625.2	607.9	605.5
52.5°	2686.4	1429.8	724.5	704.7	710.9	688.1	634.4	614.7	595.0	575.3	570.9
55°	2700.0	1338.6	676.4	665.3	676.4	624.6	599.9	579.0	560.5	541.3	537.6
57.5°	2759.1	1248.6	625.2	622.7	634.4	575.9	555.5	529.0	502.5	487.1	487.1
60°	2317.1	910.1	535.2	541.3	567.9	536.4	518.5	491.4	462.4	448.9	448.9
62.5°	1370.0	570.9	443.9	437.1	453.8	473.5	483.4	461.2	426.7	408.8	409.4
65°	603.6	415.6	391.5	386.0	381.0	394.6	421.7	423.6	387.2	366.2	366.9
67.5°	371.8	376.1	366.2	361.9	357.6	355.1	352.7	353.9	344.0	324.9	324.3
70°	335.4	347.1	340.3	336.6	331.1	326.8	312.0	287.9	271.3	266.4	271.9
72.5°	288.6	304.6	300.9	299.0	292.3	281.8	262.0	238.6	218.9	206.6	209.0
75°	217.6	230.6	232.4	233.1	225.7	215.8	195.5	175.7	158.5	145.5	148.6
77.5°	125.2	132.6	134.4	136.3	130.7	127.0	113.4	99.3	90.0	76.5	80.2
80°	69.7	72.8	72.8	73.4	70.3	66.0	56.7	48.7	44.4	38.2	38.8
82.5°	41.9	43.2	43.8	44.4	42.5	38.2	31.4	25.9	23.4	20.3	19.7
85°	20.3	21.6	21.6	22.2	19.1	16.6	12.9	9.9	8.6	6.2	6.8
87.5°	4.9	5.5	5.5	4.9	4.3	3.1	1.8	0.6	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)