

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: P637503

Luminaire Tested: GWS-SA4C-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637503
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-SA4C-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13571.5 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

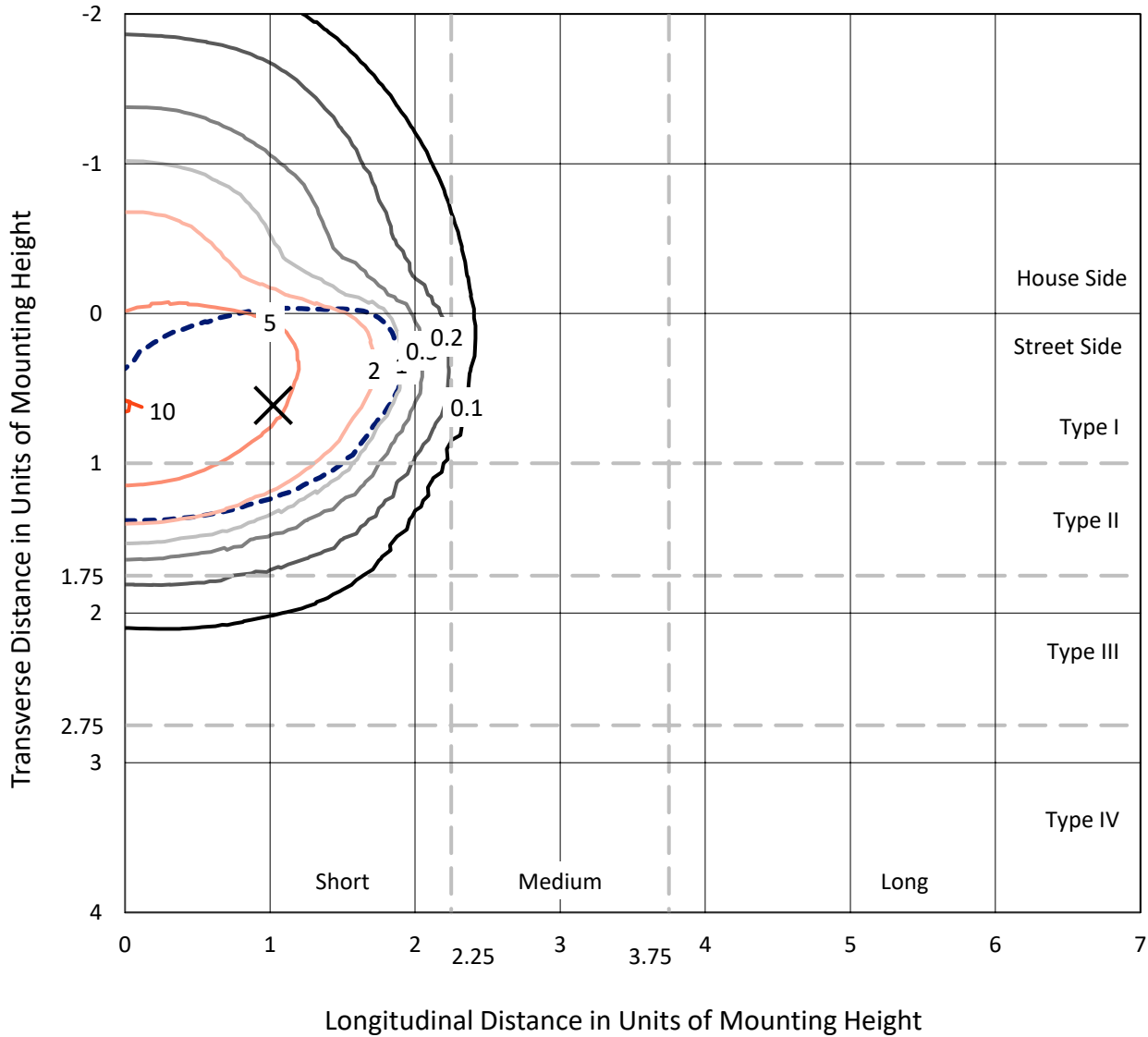
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

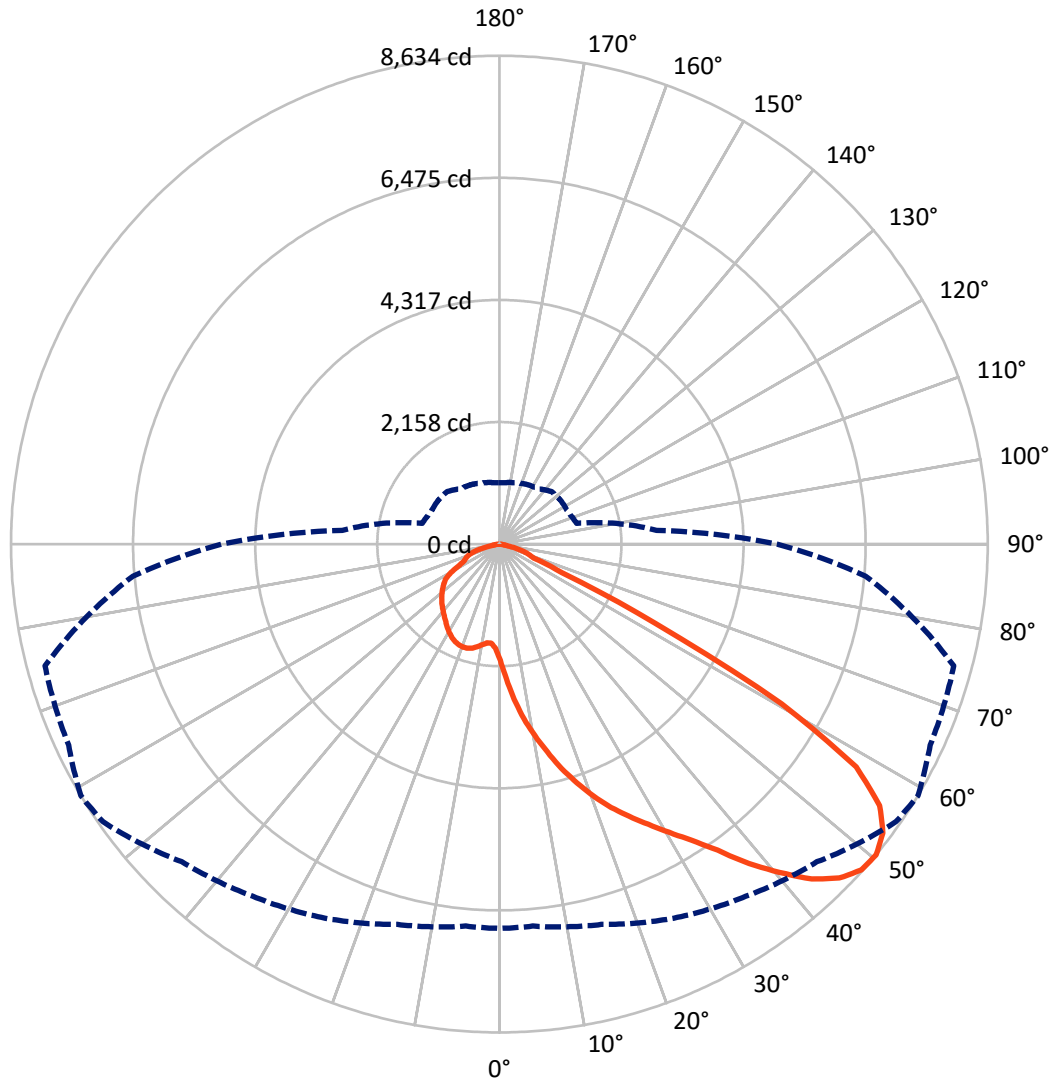
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 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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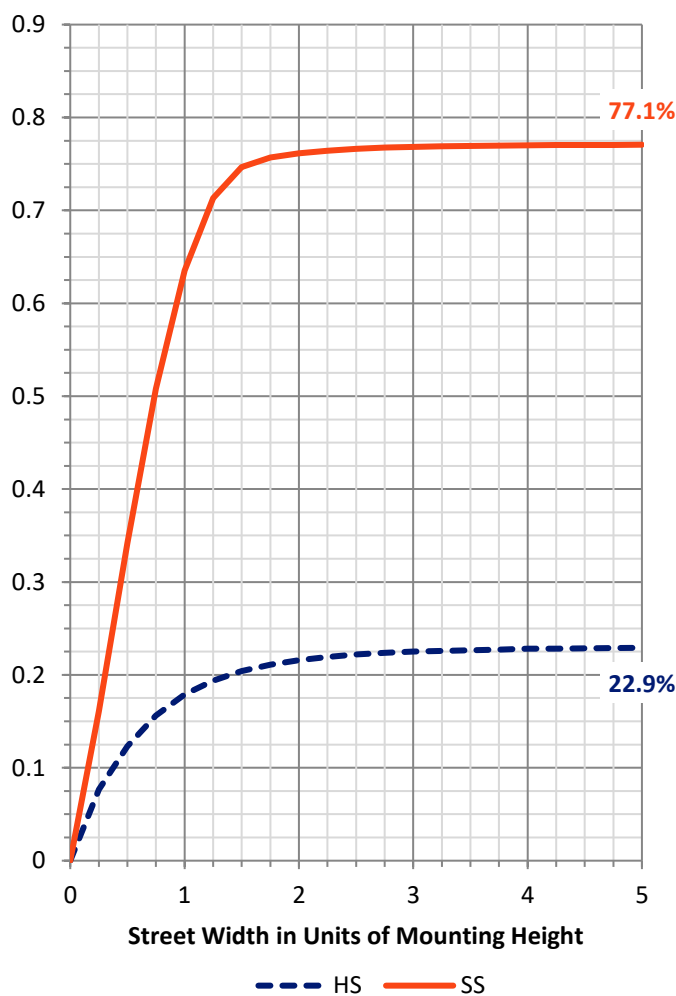
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3121.7	0.0	3121.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	10449.8	0.0	10449.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	13571.5	0.0	13571.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.7
10°-20°	837.4	6.2
20°-30°	1585.6	11.7
30°-40°	2629.5	19.4
40°-50°	3592.0	26.5
50°-60°	3260.6	24.0
60°-70°	1085.8	8.0
70°-80°	316.7	2.3
80°-90°	33.3	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°	13571.5	100.0
0°-180°	13571.5	100.0

Coefficient of Utilization



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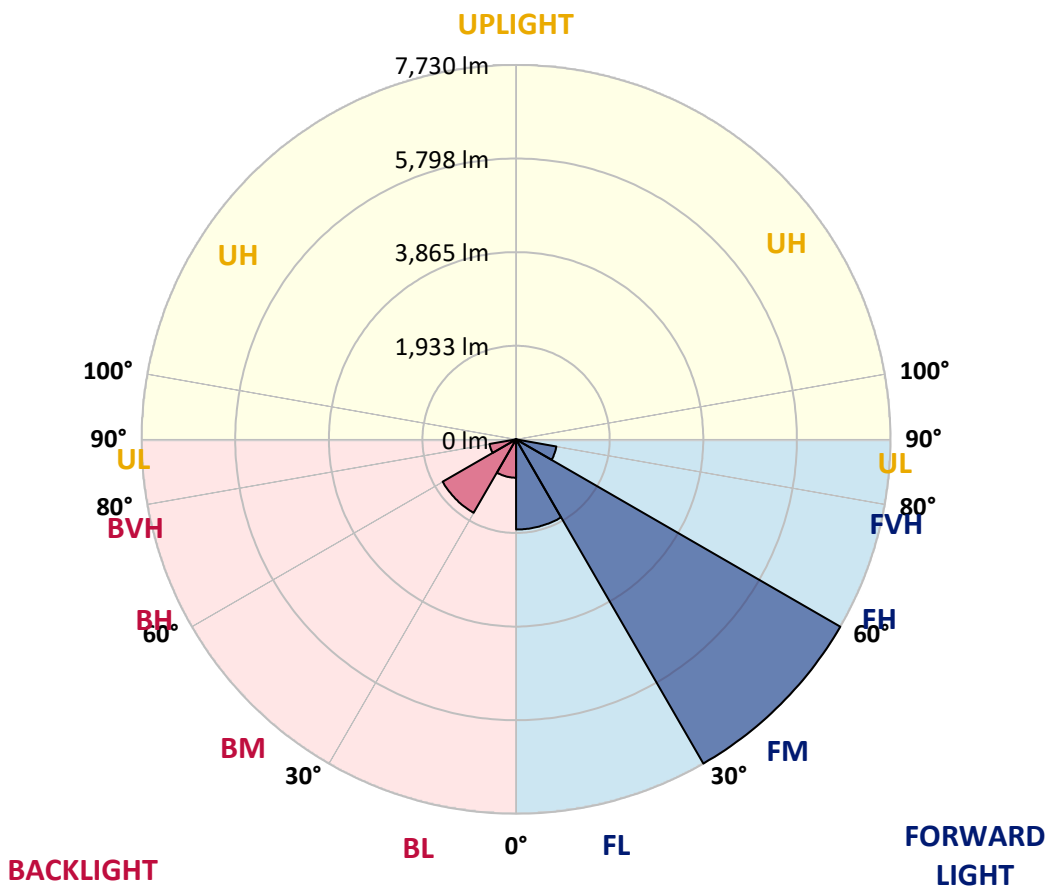
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.0	13.7			
FM (30°-60°)	7730.5	57.0			
FH (60°-80°)	845.3	6.2			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	792.7	5.8	B2/1000		
BM (30°-60°)	1751.6	12.9	B2/2500		
BH (60°-80°)	557.2	4.1	B2/1000		G2/1000
BVH (80°-90°)	20.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2
2.5°	2664.2	2684.1	2653.1	2655.3	2578.0	2542.6	2443.1	2384.5	2345.8	2237.5	2139.1
5°	3201.4	3178.2	3153.9	3139.5	3072.1	2977.0	2853.2	2754.8	2664.2	2451.9	2247.4
7.5°	3530.9	3518.7	3502.1	3493.3	3427.0	3327.5	3203.7	3119.6	2988.1	2700.7	2379.0
10°	3810.6	3796.2	3786.2	3792.9	3738.7	3674.6	3539.7	3443.5	3295.4	2963.8	2538.2
12.5°	4027.2	4035.0	4038.3	4073.7	4050.5	4011.8	3872.5	3770.8	3606.1	3241.2	2725.0
15°	4198.6	4196.4	4235.1	4302.5	4340.1	4315.8	4204.1	4119.0	3917.8	3514.3	2926.2
17.5°	4238.4	4240.6	4301.4	4419.7	4542.4	4602.1	4539.1	4437.4	4238.4	3784.0	3135.1
20°	4270.4	4274.9	4337.9	4472.7	4651.8	4818.8	4828.7	4755.7	4584.4	4075.9	3347.4
22.5°	4472.7	4482.7	4499.3	4584.4	4745.8	4956.9	5073.0	5057.5	4913.8	4382.1	3576.2
25°	5004.5	4974.6	4893.9	4869.6	4931.5	5102.9	5300.7	5330.6	5259.8	4719.3	3822.7
27.5°	5661.1	5629.1	5509.7	5383.6	5249.9	5309.6	5520.7	5610.3	5611.4	5090.7	4070.3
30°	6257.0	6231.5	6134.3	5954.1	5723.0	5636.8	5792.7	5913.2	5985.0	5519.6	4352.2
32.5°	6766.6	6743.4	6611.8	6464.8	6239.3	6065.7	6122.1	6238.2	6406.2	6074.6	4702.7
35°	7195.5	7172.3	7046.3	6898.1	6689.2	6585.3	6565.4	6645.0	6862.8	6653.8	5105.1
37.5°	7543.7	7520.5	7389.0	7249.7	7090.5	7097.1	7127.0	7165.7	7290.6	7274.0	5535.1
40°	7769.3	7744.9	7651.0	7551.5	7450.9	7530.5	7678.6	7632.2	7698.5	7774.8	5930.9
42.5°	7869.9	7838.9	7784.7	7762.6	7731.7	7855.5	8140.7	8094.3	8014.7	8108.6	6224.9
45°	7769.3	7742.7	7741.6	7809.1	7880.9	8040.1	8460.2	8422.6	8221.4	8270.0	6400.7
47.5°	7460.8	7437.6	7500.6	7677.5	7854.4	8086.5	8602.8	8609.4	8368.4	8337.5	6514.5
50°	6794.2	6778.8	6961.2	7296.1	7601.2	7941.7	8557.5	8633.7	8403.8	8316.5	6500.2
52.5°	5438.9	5510.8	5907.6	6467.0	7059.5	7687.5	8389.4	8488.9	8233.6	8178.3	6422.8
55°	3723.2	3756.4	4153.3	4970.2	5909.9	7136.9	8003.6	8157.3	8032.4	8155.1	6503.5
57.5°	1927.9	1954.5	2267.3	2992.5	4008.4	5640.1	6932.4	7436.5	7626.7	8272.2	6754.4
60°	791.5	813.6	943.0	1293.4	2021.9	3284.4	4989.0	5736.3	6182.9	7554.8	5998.3
62.5°	574.8	585.9	647.8	771.6	1059.0	1609.6	2823.4	3098.6	3412.6	4734.7	3808.4
65°	484.2	496.4	546.1	621.3	772.7	987.2	1206.1	1212.7	1336.5	1929.0	1411.7
67.5°	405.7	416.8	461.0	525.1	624.6	700.9	647.8	648.9	646.7	699.8	676.5
70°	316.2	325.0	369.2	437.8	489.7	449.9	506.3	560.5	537.3	558.3	590.3
72.5°	231.0	241.0	279.7	331.6	318.4	320.6	410.1	465.4	452.1	475.4	505.2
75°	166.9	173.6	193.5	165.8	174.7	211.1	288.5	318.4	331.6	351.5	378.1
77.5°	54.2	54.2	60.8	76.3	95.1	117.2	147.0	159.2	179.1	201.2	220.0
80°	27.6	28.7	34.3	42.0	53.1	67.4	86.2	91.8	101.7	113.9	121.6
82.5°	13.3	14.4	16.6	21.0	27.6	35.4	47.5	53.1	59.7	67.4	73.0
85°	3.3	3.3	4.4	6.6	8.8	13.3	17.7	21.0	26.5	32.1	35.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	3.3	4.4	5.5	6.6	8.8
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°	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2
2.5°	2094.9	2033.0	1953.4	1885.9	1824.0	1776.5	1735.6	1715.7	1696.9	1683.6	1688.1
5°	2152.4	2046.2	1898.1	1795.3	1732.3	1700.2	1678.1	1667.1	1664.8	1656.0	1652.7
7.5°	2236.4	2084.9	1887.0	1783.1	1741.1	1724.5	1712.4	1705.7	1709.1	1700.2	1696.9
10°	2340.3	2149.0	1914.7	1822.9	1786.4	1774.3	1761.0	1752.2	1747.8	1734.5	1732.3
12.5°	2469.6	2228.6	1964.4	1873.8	1837.3	1816.3	1798.6	1783.1	1773.2	1756.6	1752.2
15°	2608.9	2317.1	2023.0	1923.5	1880.4	1849.5	1820.7	1797.5	1779.8	1757.7	1754.4
17.5°	2760.4	2409.9	2071.7	1957.8	1902.5	1861.6	1819.6	1785.3	1761.0	1732.3	1729.0
20°	2918.4	2503.9	2108.1	1974.4	1903.6	1848.3	1792.0	1746.6	1715.7	1687.0	1684.7
22.5°	3082.1	2590.1	2130.2	1970.0	1885.9	1817.4	1750.0	1699.1	1662.6	1628.4	1626.1
25°	3246.8	2673.0	2135.8	1952.3	1850.6	1771.0	1703.5	1643.8	1602.9	1564.2	1559.8
27.5°	3413.7	2742.7	2122.5	1916.9	1803.0	1716.8	1649.4	1590.8	1548.8	1510.1	1503.4
30°	3591.7	2802.4	2093.8	1870.5	1747.8	1659.3	1593.0	1548.8	1509.0	1470.3	1463.6
32.5°	3781.8	2854.3	2052.9	1814.1	1683.6	1601.8	1553.2	1513.4	1473.6	1439.3	1432.7
35°	4008.4	2888.6	1992.1	1741.1	1623.9	1559.8	1526.7	1480.2	1431.6	1394.0	1390.7
37.5°	4242.8	2915.1	1919.1	1671.5	1572.0	1535.5	1507.9	1444.9	1384.1	1338.7	1333.2
40°	4469.4	2937.2	1828.5	1606.3	1524.4	1517.8	1480.2	1401.7	1296.7	1245.9	1241.4
42.5°	4680.6	2943.9	1733.4	1536.6	1481.3	1478.0	1436.0	1314.4	1233.7	1201.6	1197.2
45°	4825.4	2938.3	1635.0	1471.4	1438.2	1420.5	1376.3	1251.4	1201.6	1172.9	1167.4
47.5°	4932.6	2909.6	1524.4	1402.8	1389.6	1365.3	1270.2	1211.6	1165.2	1136.4	1130.9
50°	4913.8	2790.2	1412.8	1336.5	1331.0	1310.0	1192.8	1161.9	1120.9	1090.0	1085.6
52.5°	4816.5	2563.6	1298.9	1263.6	1274.6	1233.7	1137.5	1102.2	1066.8	1031.4	1023.7
55°	4840.9	2400.0	1212.7	1192.8	1212.7	1119.8	1075.6	1038.0	1004.9	970.6	964.0
57.5°	4947.0	2238.6	1120.9	1116.5	1137.5	1032.5	996.0	948.5	901.0	873.3	873.3
60°	4154.4	1631.7	959.5	970.6	1018.1	961.8	929.7	881.1	829.1	804.8	804.8
62.5°	2456.4	1023.7	795.9	783.8	813.6	849.0	866.7	826.9	765.0	732.9	734.0
65°	1082.3	745.1	702.0	692.0	683.2	707.5	756.1	759.5	694.2	656.7	657.8
67.5°	666.6	674.3	656.7	648.9	641.2	636.8	632.3	634.5	616.9	582.6	581.5
70°	601.4	622.4	610.2	603.6	593.6	585.9	559.4	516.3	486.4	477.6	487.5
72.5°	517.4	546.1	539.5	536.2	524.0	505.2	469.8	427.8	392.4	370.3	374.8
75°	390.2	413.4	416.8	417.9	404.6	386.9	350.4	315.1	284.1	260.9	266.4
77.5°	224.4	237.7	241.0	244.3	234.4	227.7	203.4	178.0	161.4	137.1	143.7
80°	124.9	130.4	130.4	131.6	126.0	118.3	101.7	87.3	79.6	68.5	69.6
82.5°	75.2	77.4	78.5	79.6	76.3	68.5	56.4	46.4	42.0	36.5	35.4
85°	36.5	38.7	38.7	39.8	34.3	29.8	23.2	17.7	15.5	11.1	12.2
87.5°	8.8	9.9	9.9	8.8	7.7	5.5	3.3	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)