

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: P638550

Luminaire Tested: GWS-SA4F-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25555.5 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

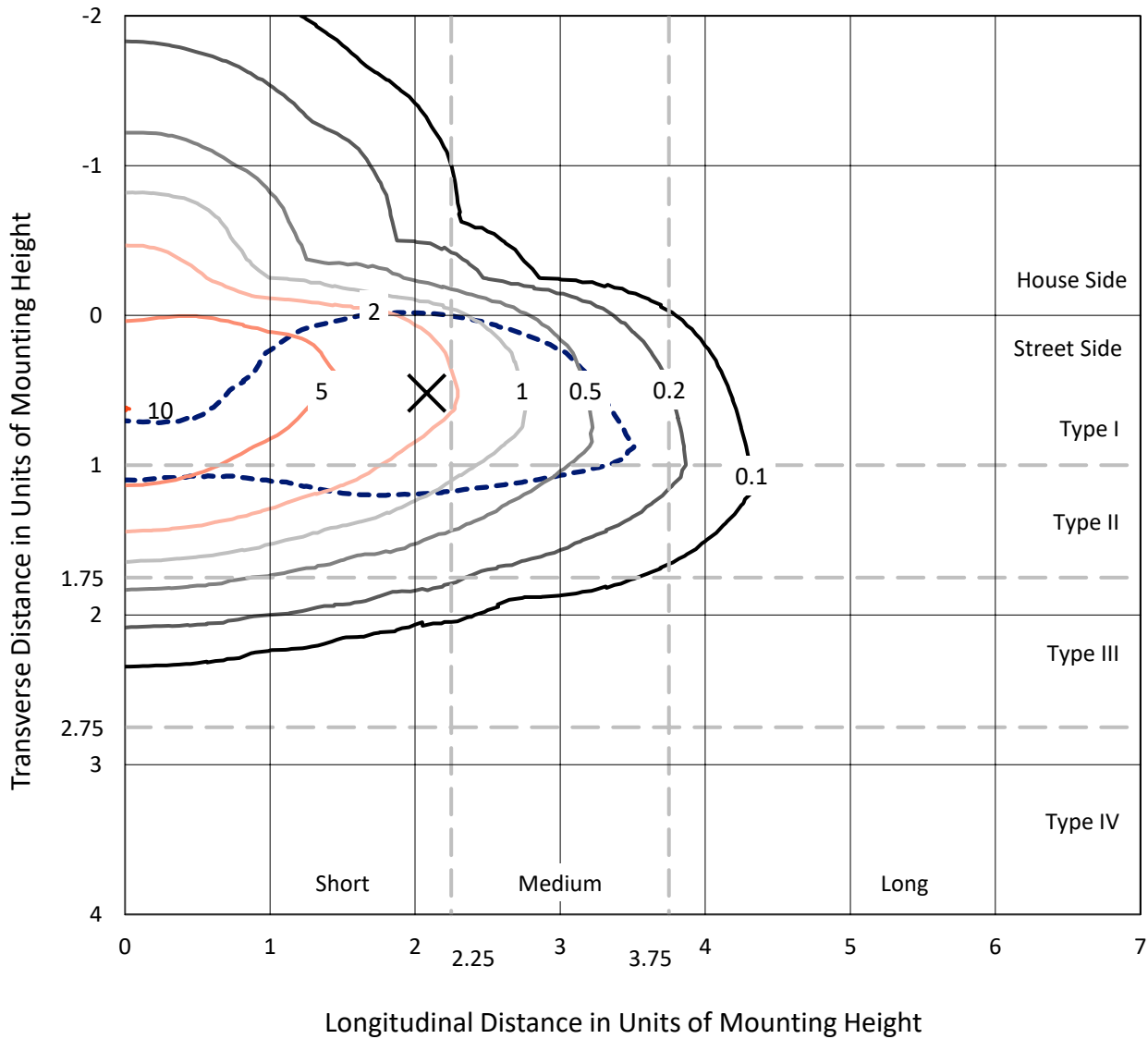
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

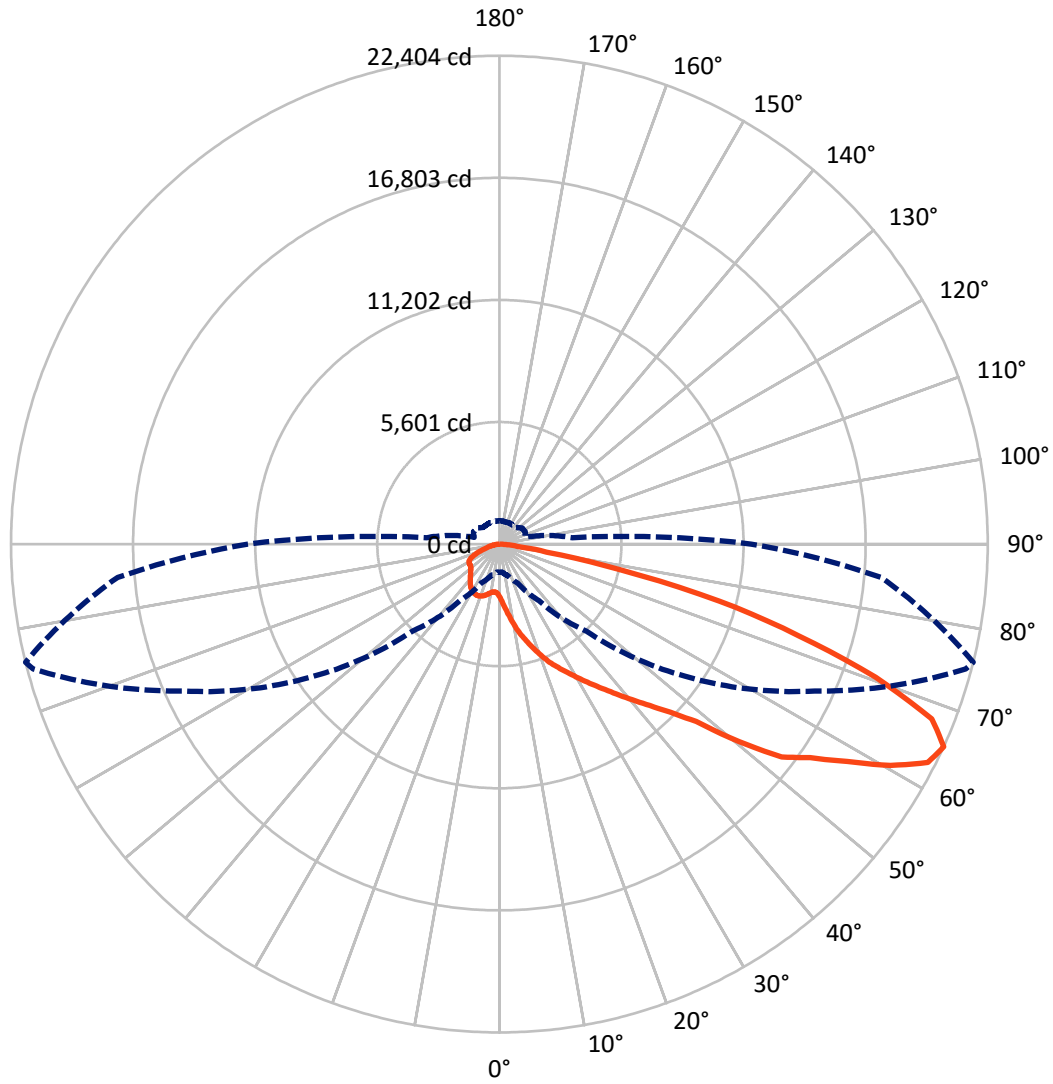
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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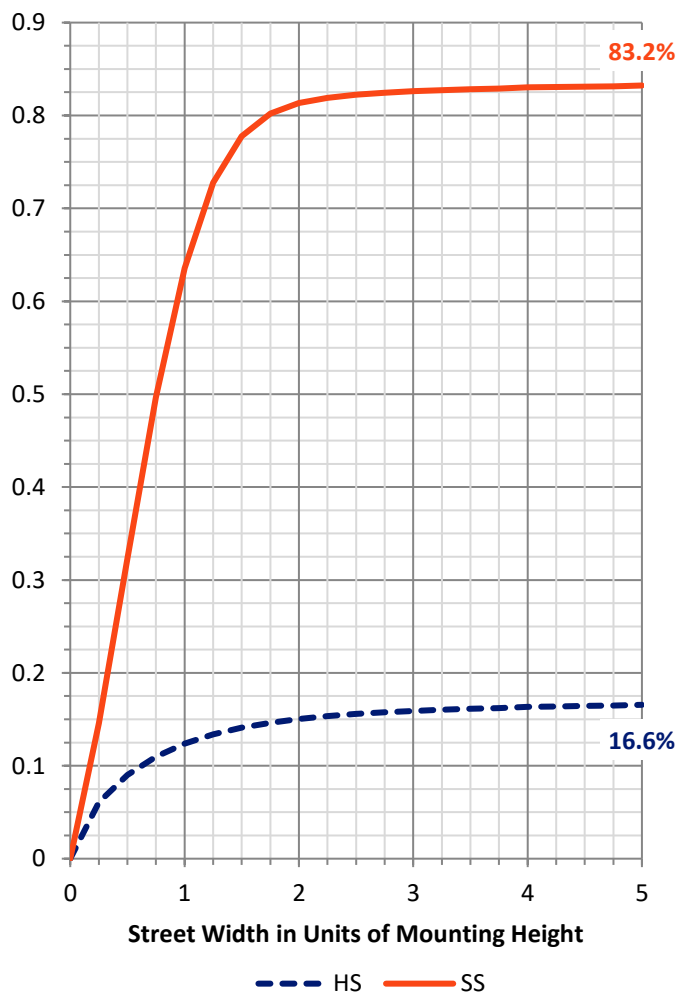
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4271.6	0.0	4271.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	21283.9	0.0	21283.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	25555.5	0.0	25555.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	1.1
10°-20°	1095.1	4.3
20°-30°	2134.2	8.4
30°-40°	3569.3	14.0
40°-50°	5110.5	20.0
50°-60°	6050.2	23.7
60°-70°	5030.8	19.7
70°-80°	2058.7	8.1
80°-90°	219.2	0.9
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°	25555.5	100.0
0°-180°	25555.5	100.0

Coefficient of Utilization



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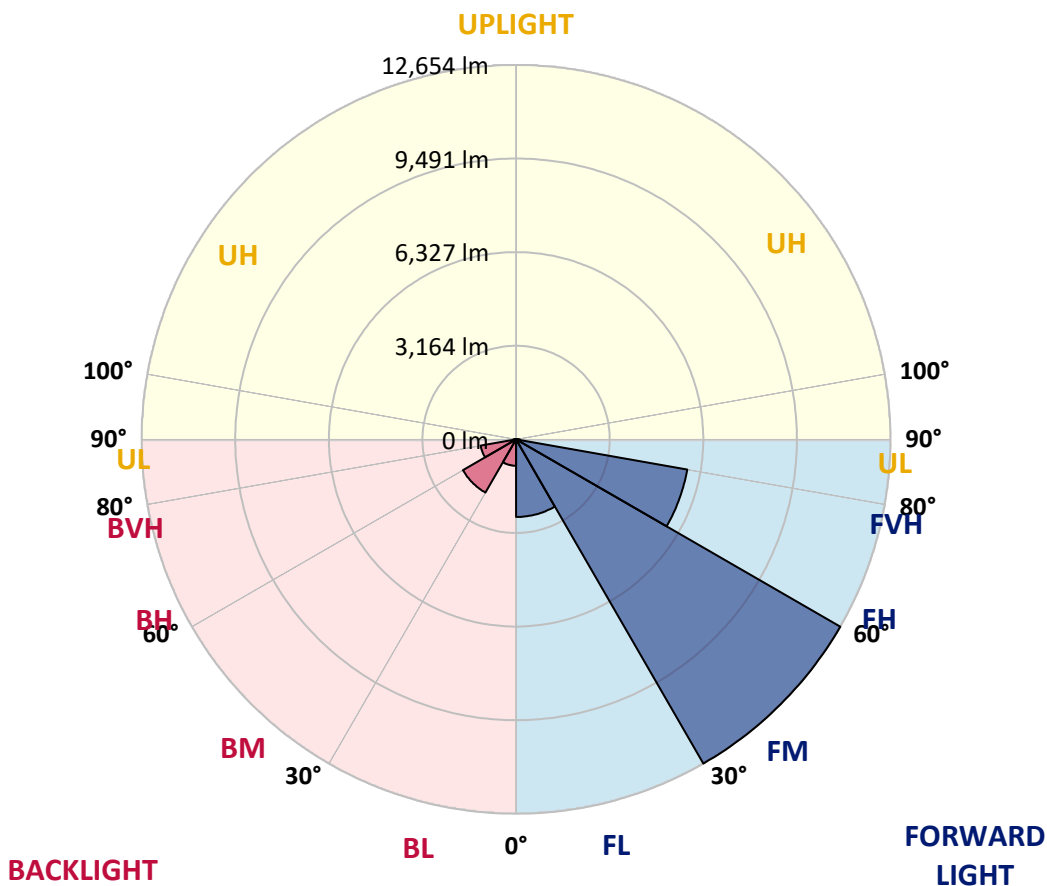
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.2	10.3			
FM (30°-60°)	12654.1	49.5			
FH (60°-80°)	5875.9	23.0			G3/7500
FVH (80°-90°)	130.7	0.5			G2/225
BL (0°-30°)	893.6	3.5	B2/1000		
BM (30°-60°)	2075.9	8.1	B2/2500		
BH (60°-80°)	1213.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	88.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0
2.5°	3392.0	3404.5	3363.2	3348.9	3251.8	3120.7	3011.1	2845.8	2693.1	2669.7	2533.2
5°	4308.2	4254.3	4207.6	4177.1	4042.3	3893.2	3661.5	3350.6	3025.5	2985.9	2691.3
7.5°	4852.6	4843.6	4786.1	4768.2	4664.0	4514.8	4275.9	3889.6	3417.1	3352.4	2905.1
10°	5289.2	5283.8	5255.0	5271.2	5176.0	5030.5	4798.7	4399.9	3846.5	3781.8	3144.0
12.5°	5670.0	5679.0	5673.6	5732.9	5684.4	5571.2	5330.5	4892.1	4275.9	4205.8	3435.1
15°	5948.5	5955.7	5982.7	6112.0	6139.0	6115.6	5871.3	5375.4	4699.9	4599.3	3735.1
17.5°	6027.6	6041.9	6106.6	6315.0	6460.6	6557.6	6376.1	5867.7	5116.7	5007.1	4040.5
20°	6133.6	6149.7	6214.4	6431.8	6645.6	6866.6	6834.2	6367.1	5537.1	5447.3	4349.6
22.5°	6624.0	6611.5	6582.7	6686.9	6839.6	7114.5	7195.4	6846.8	5971.9	5885.6	4690.9
25°	7569.0	7545.7	7362.4	7267.2	7216.9	7384.0	7527.7	7283.4	6395.9	6266.5	5008.9
27.5°	8611.1	8598.5	8364.9	8138.6	7829.6	7757.7	7842.1	7664.3	6807.3	6676.1	5285.6
30°	9597.4	9559.7	9315.3	9031.5	8618.3	8309.2	8185.3	8038.0	7258.2	7121.7	5609.0
32.5°	10479.5	10431.0	10143.6	9829.2	9396.2	9031.5	8661.4	8435.0	7768.5	7610.4	5939.5
35°	11203.6	11155.0	10860.4	10526.2	10050.1	9780.7	9274.0	8866.2	8287.7	8127.8	6329.4
37.5°	11764.1	11719.2	11412.0	11083.2	10668.2	10454.4	10014.2	9351.3	8886.0	8718.9	6742.6
40°	12078.5	12046.2	11800.0	11539.5	11191.0	11005.9	10808.3	9963.9	9556.1	9389.0	7229.5
42.5°	12173.7	12152.2	11979.7	11844.9	11609.6	11469.5	11582.6	10684.3	10271.1	10125.6	7777.5
45°	11934.8	11934.8	11884.5	11952.7	11963.5	11961.7	12358.8	11498.2	11149.7	10989.8	8550.0
47.5°	11323.9	11363.5	11437.1	11773.1	12127.0	12423.4	13266.0	12583.3	12279.7	12148.6	9644.1
50°	10206.4	10314.2	10565.8	11221.5	11974.3	12728.9	14124.8	14187.7	14477.0	14245.2	11253.9
52.5°	8569.8	8553.6	9195.0	10129.2	11277.2	12741.4	14597.3	15603.4	16381.3	16221.4	12450.4
55°	6810.9	6783.9	7382.2	8670.4	10208.2	12260.0	14881.2	16252.0	17437.7	17294.0	13526.6
57.5°	5215.5	5181.4	5713.2	6875.6	8699.1	11237.7	14827.3	17024.5	18891.2	18817.5	14989.0
60°	3589.6	3548.3	4045.9	5062.8	6913.3	9674.7	14230.8	17421.6	20592.6	20617.7	16553.8
62.5°	2155.9	2132.6	2493.7	3282.4	4973.0	7737.9	12834.9	17180.8	21947.2	22060.4	17559.9
65°	1300.7	1284.6	1496.6	1958.3	3154.8	5646.7	10682.5	15950.2	22143.0	22403.5	17583.3
67.5°	946.8	948.6	1009.7	1192.9	1839.7	3647.1	8016.4	13743.9	21122.5	21392.0	16474.8
70°	822.8	826.4	858.8	900.1	1112.1	2087.6	5211.9	10849.6	18106.1	18314.5	13817.6
72.5°	731.2	731.2	752.8	774.3	869.6	1272.0	2791.9	7583.4	14290.1	14345.8	10546.0
75°	643.2	637.8	648.6	659.3	754.6	889.3	1358.2	5283.8	10555.0	10425.6	6816.3
77.5°	512.0	506.6	508.4	519.2	605.5	636.0	688.1	3300.3	5948.5	5614.4	3011.1
80°	364.7	361.1	380.9	407.8	447.4	389.9	431.2	1597.2	2358.9	2195.4	1167.8
82.5°	217.4	224.6	255.1	276.7	309.0	244.3	278.5	533.6	835.4	813.9	474.3
85°	30.5	32.3	91.6	106.0	132.9	95.2	147.3	240.7	334.2	357.5	167.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.6	43.1	95.2	97.0	41.3
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°	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0	2420.0
2.5°	2463.1	2378.7	2258.3	2157.7	2073.3	2005.0	1947.5	1904.4	1891.8	1873.8	1873.8
5°	2553.0	2400.2	2184.7	2031.9	1943.9	1891.8	1855.9	1837.9	1828.9	1818.2	1812.8
7.5°	2676.9	2463.1	2172.1	2017.6	1949.3	1917.0	1893.6	1882.8	1875.6	1864.9	1864.9
10°	2847.6	2556.6	2211.6	2067.9	2014.0	1981.6	1954.7	1936.7	1920.6	1904.4	1900.8
12.5°	3032.6	2678.7	2283.5	2136.1	2078.7	2039.1	2001.4	1974.5	1954.7	1934.9	1929.5
15°	3237.5	2804.5	2360.7	2202.6	2130.8	2076.9	2031.9	1990.6	1963.7	1934.9	1931.3
17.5°	3438.7	2932.0	2425.4	2247.5	2155.9	2089.4	2024.8	1970.9	1936.7	1904.4	1895.4
20°	3679.4	3059.6	2470.3	2260.1	2150.5	2062.5	1985.2	1917.0	1879.2	1841.5	1836.1
22.5°	3900.4	3178.2	2491.9	2242.1	2109.2	2005.0	1915.2	1841.5	1800.2	1762.5	1755.3
25°	4114.2	3282.4	2482.9	2199.0	2046.3	1925.9	1832.5	1758.9	1719.3	1679.8	1669.0
27.5°	4320.8	3352.4	2447.0	2132.6	1967.3	1837.9	1748.1	1681.6	1647.5	1613.3	1599.0
30°	4523.8	3417.1	2391.3	2046.3	1866.7	1746.3	1672.6	1625.9	1591.8	1555.8	1545.1
32.5°	4728.6	3463.8	2306.8	1945.7	1764.3	1665.4	1620.5	1586.4	1550.5	1514.5	1503.7
35°	4935.2	3483.6	2204.4	1830.7	1678.0	1613.3	1597.2	1557.6	1509.1	1466.0	1451.6
37.5°	5181.4	3501.6	2076.9	1717.5	1602.6	1588.2	1584.6	1525.3	1467.8	1408.5	1392.4
40°	5477.8	3524.9	1945.7	1615.1	1541.5	1579.2	1564.8	1484.0	1369.0	1311.5	1293.5
42.5°	5840.7	3568.0	1809.2	1521.7	1496.6	1545.1	1528.9	1383.4	1306.1	1273.8	1264.8
45°	6374.3	3726.1	1672.6	1448.1	1462.4	1496.6	1471.4	1324.1	1293.5	1272.0	1261.2
47.5°	7324.7	3968.7	1554.1	1392.4	1435.5	1453.4	1356.4	1307.9	1284.6	1255.8	1243.2
50°	8312.8	4074.7	1458.8	1358.2	1404.9	1413.9	1293.5	1286.4	1270.2	1239.6	1227.1
52.5°	8981.2	4060.3	1401.3	1345.6	1379.8	1345.6	1264.8	1263.0	1252.2	1216.3	1201.9
55°	9735.7	4085.5	1376.2	1349.2	1369.0	1230.7	1228.9	1234.3	1228.9	1189.3	1182.2
57.5°	10754.4	4162.7	1363.6	1361.8	1361.8	1175.0	1194.7	1201.9	1191.1	1173.2	1167.8
60°	11733.6	4168.1	1340.3	1376.2	1356.4	1140.8	1155.2	1162.4	1149.8	1146.2	1144.4
62.5°	12101.9	3909.4	1288.2	1365.4	1334.9	1103.1	1113.9	1117.5	1104.9	1113.9	1112.1
65°	11553.9	3359.6	1201.9	1313.3	1268.4	1069.0	1061.8	1070.8	1049.2	1072.6	1074.4
67.5°	10258.5	2669.7	1070.8	1214.5	1175.0	1031.2	1016.9	1016.9	980.9	1016.9	1015.1
70°	8271.5	1886.4	878.5	1056.4	1072.6	986.3	979.1	937.8	880.3	934.2	928.8
72.5°	6270.1	1354.6	691.7	835.4	923.4	923.4	925.2	855.2	788.7	813.9	792.3
75°	3972.3	954.0	553.4	639.6	724.0	810.3	851.6	722.2	662.9	652.2	641.4
77.5°	1789.4	627.0	431.2	490.5	513.8	639.6	777.9	621.6	540.8	517.4	510.2
80°	749.2	389.9	307.2	346.7	316.2	537.2	686.3	483.3	397.0	364.7	341.4
82.5°	328.8	231.8	195.8	186.8	197.6	398.8	512.0	321.6	247.9	336.0	339.6
85°	138.3	122.2	100.6	91.6	80.8	152.7	240.7	125.8	154.5	88.0	71.9
87.5°	32.3	35.9	26.9	18.0	10.8	1.8	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)