

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: P638495

Luminaire Tested: GWS-SA4E-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638495
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-SA4E-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24788.7 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

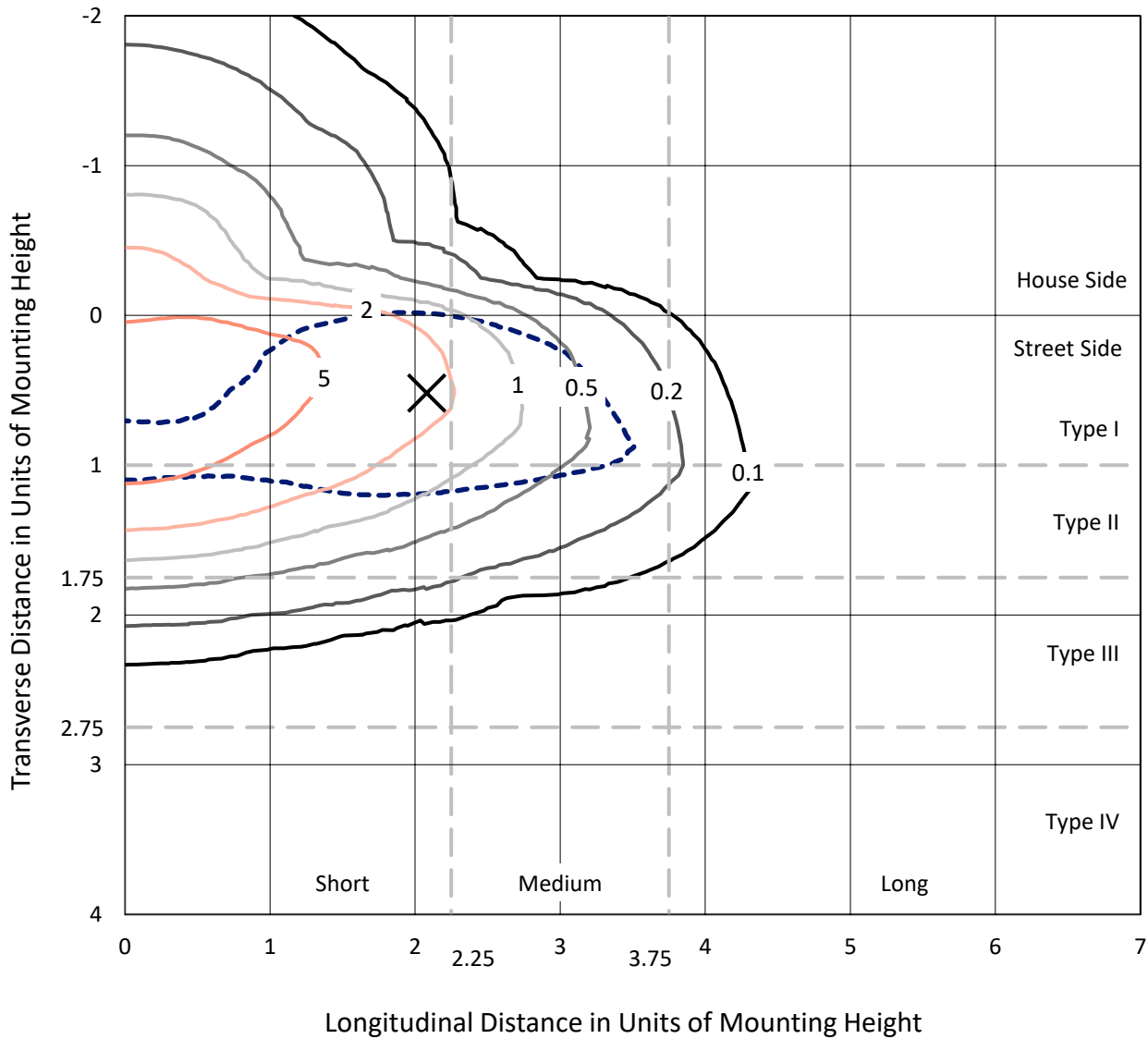
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638495
 CATALOG NUMBER: GWS-SA4E-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

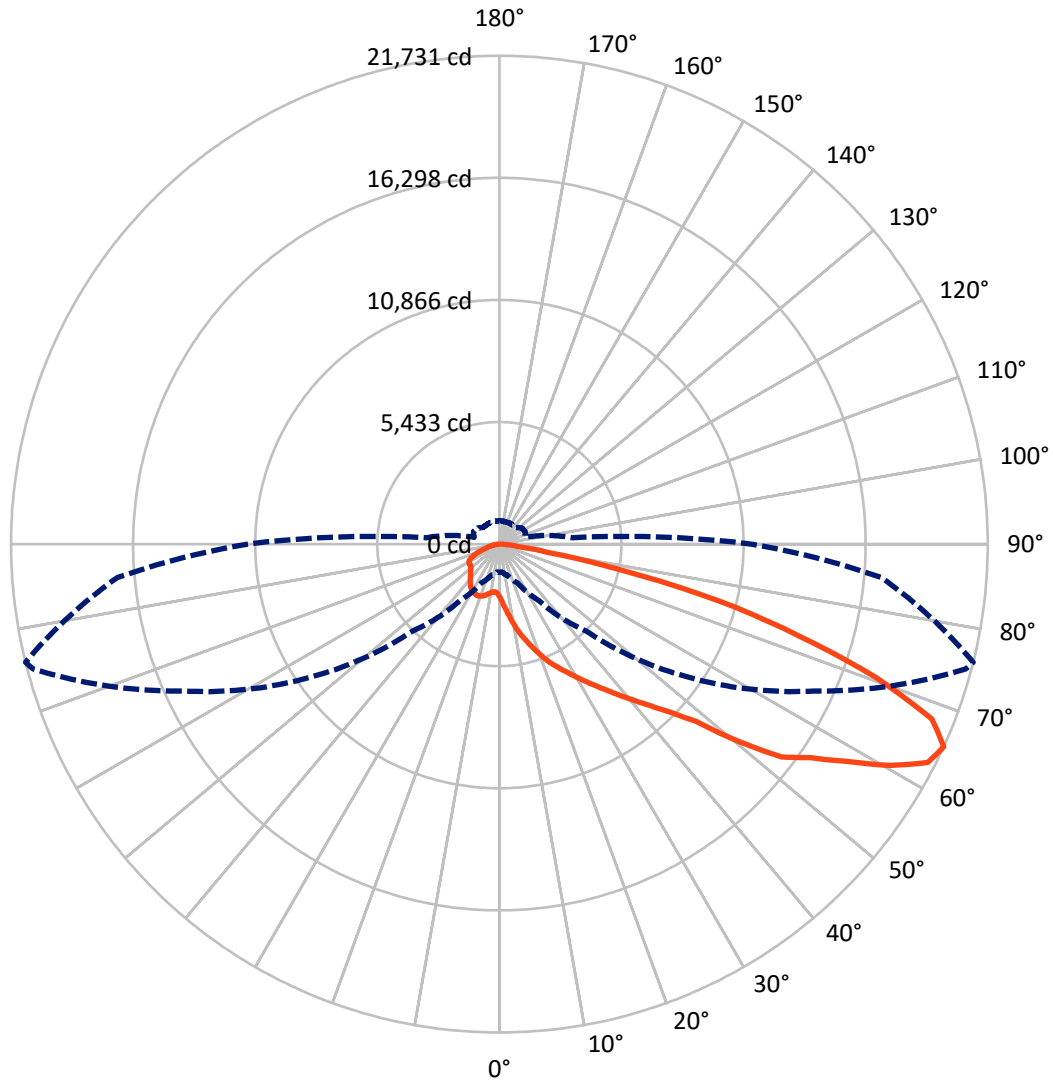
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P638495
CATALOG NUMBER: GWS-SA4E-830-U-T2R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638495

CATALOG NUMBER: GWS-SA4E-830-U-T2R-W

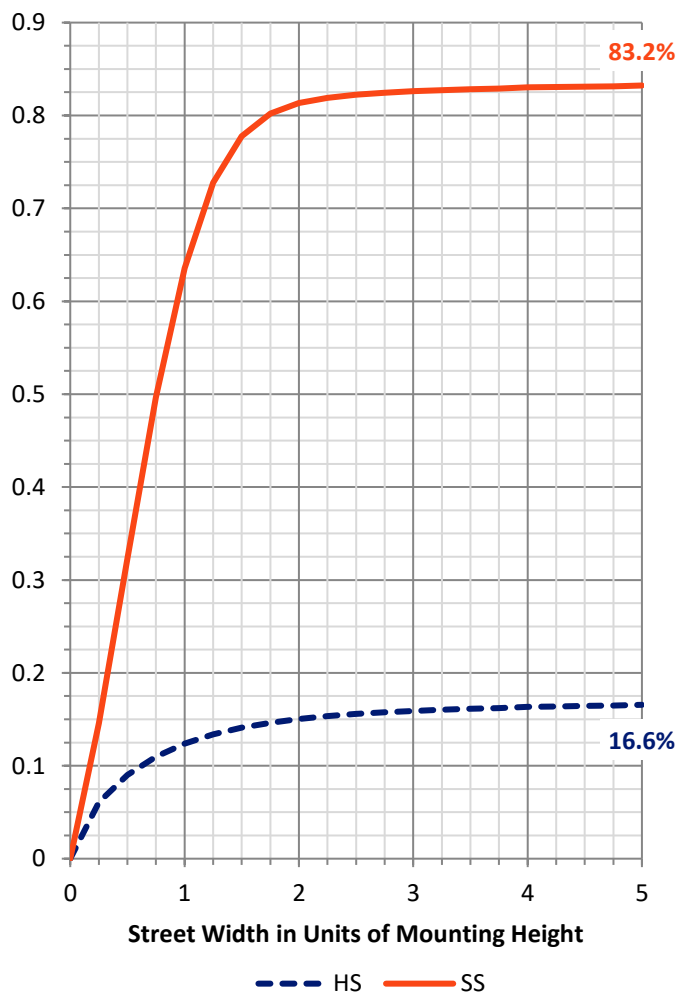
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4143.5	0.0	4143.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	20645.2	0.0	20645.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	24788.7	0.0	24788.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.1
10°-20°	1062.2	4.3
20°-30°	2070.2	8.4
30°-40°	3462.2	14.0
40°-50°	4957.2	20.0
50°-60°	5868.7	23.7
60°-70°	4879.8	19.7
70°-80°	1996.9	8.1
80°-90°	212.6	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°	24788.7	100.0
0°-180°	24788.7	100.0

Coefficient of Utilization



REPORT NUMBER: P638495

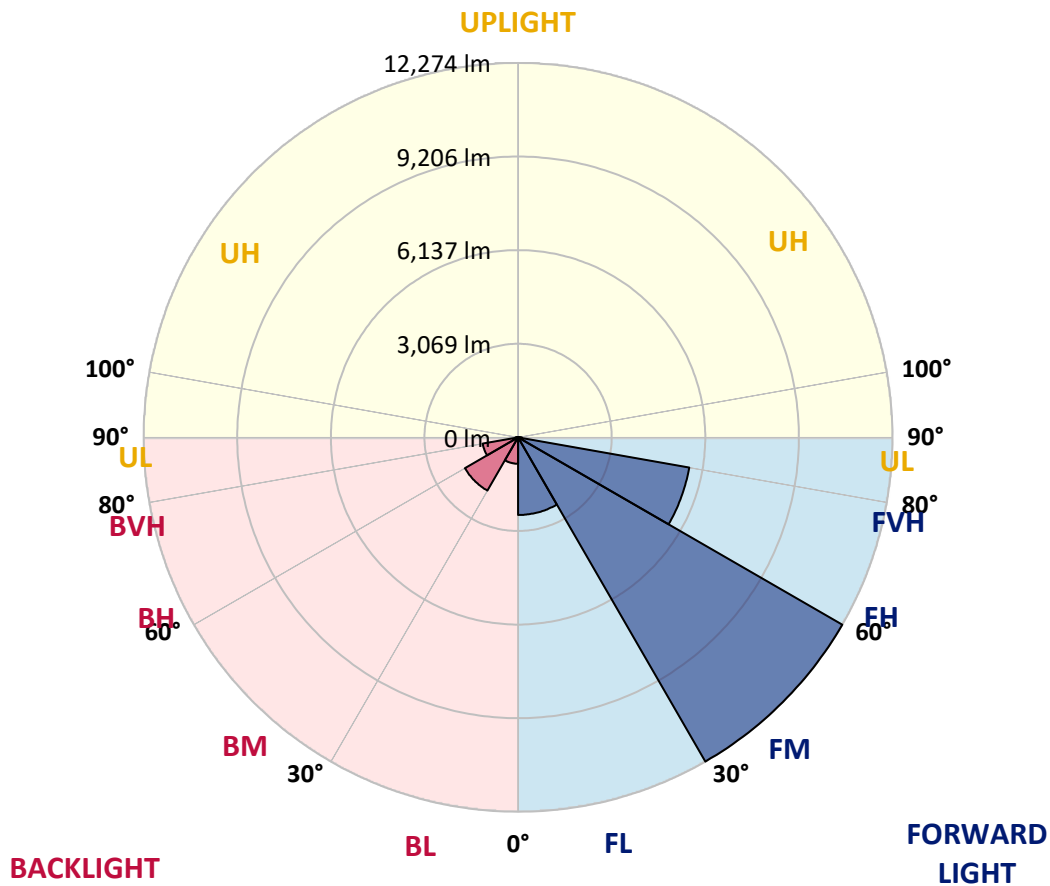
CATALOG NUMBER: GWS-SA4E-830-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.5	10.3			
FM (30°-60°)	12274.4	49.5			
FH (60°-80°)	5699.6	23.0			G3/7500
FVH (80°-90°)	126.8	0.5			G2/225
BL (0°-30°)	866.8	3.5	B2/1000		
BM (30°-60°)	2013.6	8.1	B2/2500		
BH (60°-80°)	1177.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	85.8	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





REPORT NUMBER: P638495
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4
2.5°	3290.2	3302.4	3262.3	3248.4	3154.3	3027.0	2920.7	2760.4	2612.3	2589.6	2457.2
5°	4179.0	4126.7	4081.4	4051.7	3921.0	3776.4	3551.6	3250.1	2934.7	2896.3	2610.5
7.5°	4707.0	4698.3	4642.5	4625.1	4524.0	4379.4	4147.6	3772.9	3314.6	3251.9	2817.9
10°	5130.5	5125.2	5097.4	5113.0	5020.7	4879.5	4654.7	4267.8	3731.1	3668.4	3049.7
12.5°	5499.9	5508.6	5503.4	5560.9	5513.9	5404.1	5170.5	4745.3	4147.6	4079.6	3332.0
15°	5770.0	5777.0	5803.1	5928.6	5954.8	5932.1	5695.1	5214.1	4558.9	4461.3	3623.0
17.5°	5846.7	5860.7	5923.4	6125.5	6266.7	6360.8	6184.8	5691.6	4963.2	4856.9	3919.3
20°	5949.5	5965.2	6028.0	6238.8	6446.2	6660.5	6629.2	6176.1	5371.0	5283.8	4219.0
22.5°	6425.3	6413.1	6385.2	6486.3	6634.4	6901.0	6979.5	6641.4	5792.7	5709.0	4550.2
25°	7341.9	7319.3	7141.5	7049.2	7000.4	7162.4	7301.9	7064.8	6204.0	6078.5	4858.6
27.5°	8352.7	8340.5	8113.9	7894.4	7594.6	7524.9	7606.8	7434.3	6603.0	6475.8	5127.0
30°	9309.4	9272.8	9035.8	8760.5	8359.7	8059.9	7939.7	7796.8	7040.5	6908.0	5440.7
32.5°	10165.1	10118.0	9839.2	9534.2	9114.2	8760.5	8401.5	8181.9	7535.4	7382.0	5761.3
35°	10867.4	10820.3	10534.5	10210.4	9748.6	9487.2	8995.7	8600.2	8039.0	7883.9	6139.5
37.5°	11411.1	11367.5	11069.5	10750.6	10348.1	10140.7	9713.7	9070.7	8619.3	8457.3	6540.3
40°	11716.1	11684.7	11446.0	11193.3	10855.2	10675.7	10484.0	9664.9	9269.3	9107.3	7012.6
42.5°	11808.4	11787.5	11620.2	11489.5	11261.2	11125.3	11235.1	10363.8	9962.9	9821.8	7544.1
45°	11576.7	11576.7	11527.9	11594.1	11604.5	11602.8	11987.9	11153.2	10815.1	10660.0	8293.4
47.5°	10984.2	11022.5	11093.9	11419.8	11763.1	12050.7	12868.0	12205.8	11911.3	11784.0	9354.7
50°	9900.2	10004.8	10248.7	10884.8	11615.0	12346.9	13701.0	13762.0	14042.6	13817.8	10916.2
52.5°	8312.6	8296.9	8919.1	9825.3	10938.8	12359.1	14159.3	15135.2	15889.8	15734.7	12076.8
55°	6606.5	6580.4	7160.7	8410.2	9901.9	11892.1	14434.7	15764.3	16914.5	16775.1	13120.7
57.5°	5059.0	5025.9	5541.7	6669.3	8438.1	10900.5	14382.4	16513.7	18324.3	18252.9	14539.2
60°	3481.9	3441.8	3924.5	4910.9	6705.9	9384.4	13803.8	16898.8	19974.7	19999.1	16057.1
62.5°	2091.2	2068.6	2418.8	3183.9	4823.8	7505.7	12449.7	16665.3	21288.7	21398.4	17033.0
65°	1261.7	1246.0	1451.7	1899.5	3060.2	5477.3	10362.0	15471.6	21478.6	21731.3	17055.7
67.5°	918.4	920.1	979.4	1157.1	1784.5	3537.7	7775.9	13331.5	20488.8	20750.2	15980.4
70°	798.2	801.6	833.0	873.1	1078.7	2025.0	5055.5	10524.1	17562.8	17764.9	13403.0
72.5°	709.3	709.3	730.2	751.1	843.5	1233.8	2708.1	7355.9	13861.3	13915.3	10229.6
75°	623.9	618.7	629.1	639.6	731.9	862.6	1317.5	5125.2	10238.3	10112.8	6611.8
77.5°	496.7	491.4	493.2	503.6	587.3	616.9	667.4	3201.3	5770.0	5445.9	2920.7
80°	353.8	350.3	369.4	395.6	433.9	378.2	418.2	1549.2	2288.1	2129.6	1132.7
82.5°	210.9	217.8	247.5	268.4	299.7	237.0	270.1	517.6	810.3	789.4	460.1
85°	29.6	31.4	88.9	102.8	129.0	92.4	142.9	233.5	324.1	346.8	162.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.2	41.8	92.4	94.1	40.1
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: P638495
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4	2347.4
2.5°	2389.2	2307.3	2190.6	2093.0	2011.1	1944.8	1889.1	1847.2	1835.0	1817.6	1817.6
5°	2476.4	2328.2	2119.1	1971.0	1885.6	1835.0	1800.2	1782.8	1774.1	1763.6	1758.4
7.5°	2596.6	2389.2	2106.9	1957.0	1890.8	1859.4	1836.8	1826.3	1819.4	1808.9	1808.9
10°	2762.2	2479.8	2145.2	2005.8	1953.6	1922.2	1896.0	1878.6	1862.9	1847.2	1843.8
12.5°	2941.7	2598.3	2215.0	2072.1	2016.3	1977.9	1941.4	1915.2	1896.0	1876.9	1871.6
15°	3140.3	2720.3	2289.9	2136.5	2066.8	2014.5	1971.0	1930.9	1904.8	1876.9	1873.4
17.5°	3335.5	2844.1	2352.6	2180.1	2091.2	2026.7	1964.0	1911.7	1878.6	1847.2	1838.5
20°	3569.0	2967.8	2396.2	2192.3	2086.0	2000.6	1925.7	1859.4	1822.8	1786.3	1781.0
22.5°	3783.4	3082.8	2417.1	2174.9	2045.9	1944.8	1857.7	1786.3	1746.2	1709.6	1702.6
25°	3990.8	3183.9	2408.4	2133.0	1984.9	1868.2	1777.5	1706.1	1667.8	1629.4	1619.0
27.5°	4191.2	3251.9	2373.5	2068.6	1908.2	1782.8	1695.6	1631.2	1598.0	1564.9	1551.0
30°	4388.1	3314.6	2319.5	1984.9	1810.7	1693.9	1622.4	1577.1	1544.0	1509.2	1498.7
32.5°	4586.7	3359.9	2237.6	1887.3	1711.3	1615.5	1571.9	1538.8	1503.9	1469.1	1458.6
35°	4787.2	3379.1	2138.3	1775.8	1627.7	1564.9	1549.2	1510.9	1463.9	1422.0	1408.1
37.5°	5025.9	3396.5	2014.5	1666.0	1554.5	1540.5	1537.0	1479.5	1423.8	1366.3	1350.6
40°	5313.5	3419.2	1887.3	1566.7	1495.2	1531.8	1517.9	1439.5	1327.9	1272.2	1254.7
42.5°	5665.5	3461.0	1754.9	1476.1	1451.7	1498.7	1483.0	1341.9	1266.9	1235.6	1226.9
45°	6183.1	3614.3	1622.4	1404.6	1418.5	1451.7	1427.3	1284.4	1254.7	1233.8	1223.4
47.5°	7104.9	3849.6	1507.4	1350.6	1392.4	1409.8	1315.7	1268.7	1246.0	1218.1	1205.9
50°	8063.4	3952.4	1415.1	1317.5	1362.8	1371.5	1254.7	1247.8	1232.1	1202.5	1190.3
52.5°	8711.7	3938.5	1359.3	1305.3	1338.4	1305.3	1226.9	1225.1	1214.7	1179.8	1165.9
55°	9443.6	3962.9	1334.9	1308.8	1327.9	1193.7	1192.0	1197.2	1192.0	1153.7	1146.7
57.5°	10431.7	4037.8	1322.7	1321.0	1321.0	1139.7	1158.9	1165.9	1155.4	1138.0	1132.7
60°	11381.5	4043.0	1300.0	1334.9	1315.7	1106.6	1120.5	1127.5	1115.3	1111.8	1110.1
62.5°	11738.7	3792.1	1249.5	1324.4	1294.8	1070.0	1080.5	1084.0	1071.8	1080.5	1078.7
65°	11207.2	3258.8	1165.9	1273.9	1230.3	1036.9	1029.9	1038.6	1017.7	1040.4	1042.1
67.5°	9950.7	2589.6	1038.6	1178.1	1139.7	1000.3	986.4	986.4	951.5	986.4	984.6
70°	8023.3	1829.8	852.2	1024.7	1040.4	956.7	949.8	909.7	853.9	906.2	901.0
72.5°	6082.0	1314.0	670.9	810.3	895.7	895.7	897.5	829.5	765.0	789.4	768.5
75°	3853.1	925.4	536.7	620.4	702.3	786.0	826.0	700.6	643.1	632.6	622.1
77.5°	1735.7	608.2	418.2	475.8	498.4	620.4	754.6	603.0	524.5	501.9	494.9
80°	726.7	378.2	298.0	336.3	306.7	521.1	665.7	468.8	385.1	353.8	331.1
82.5°	318.9	224.8	190.0	181.2	191.7	386.9	496.7	311.9	240.5	325.9	329.4
85°	134.2	118.5	97.6	88.9	78.4	148.1	233.5	122.0	149.9	85.4	69.7
87.5°	31.4	34.9	26.1	17.4	10.5	1.7	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)