

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: P641462

Luminaire Tested: GWS-SA5F-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22226.3 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

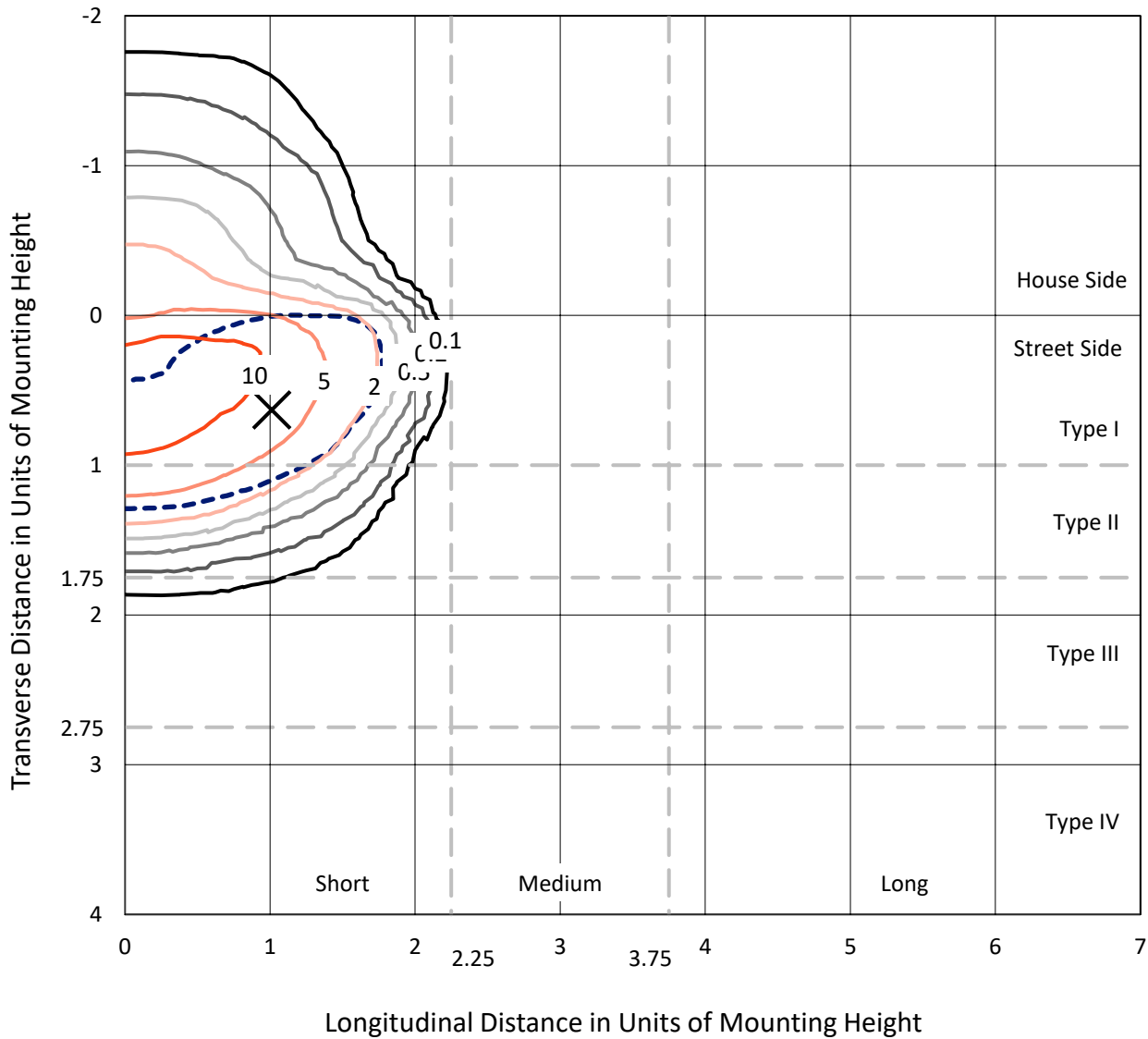
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

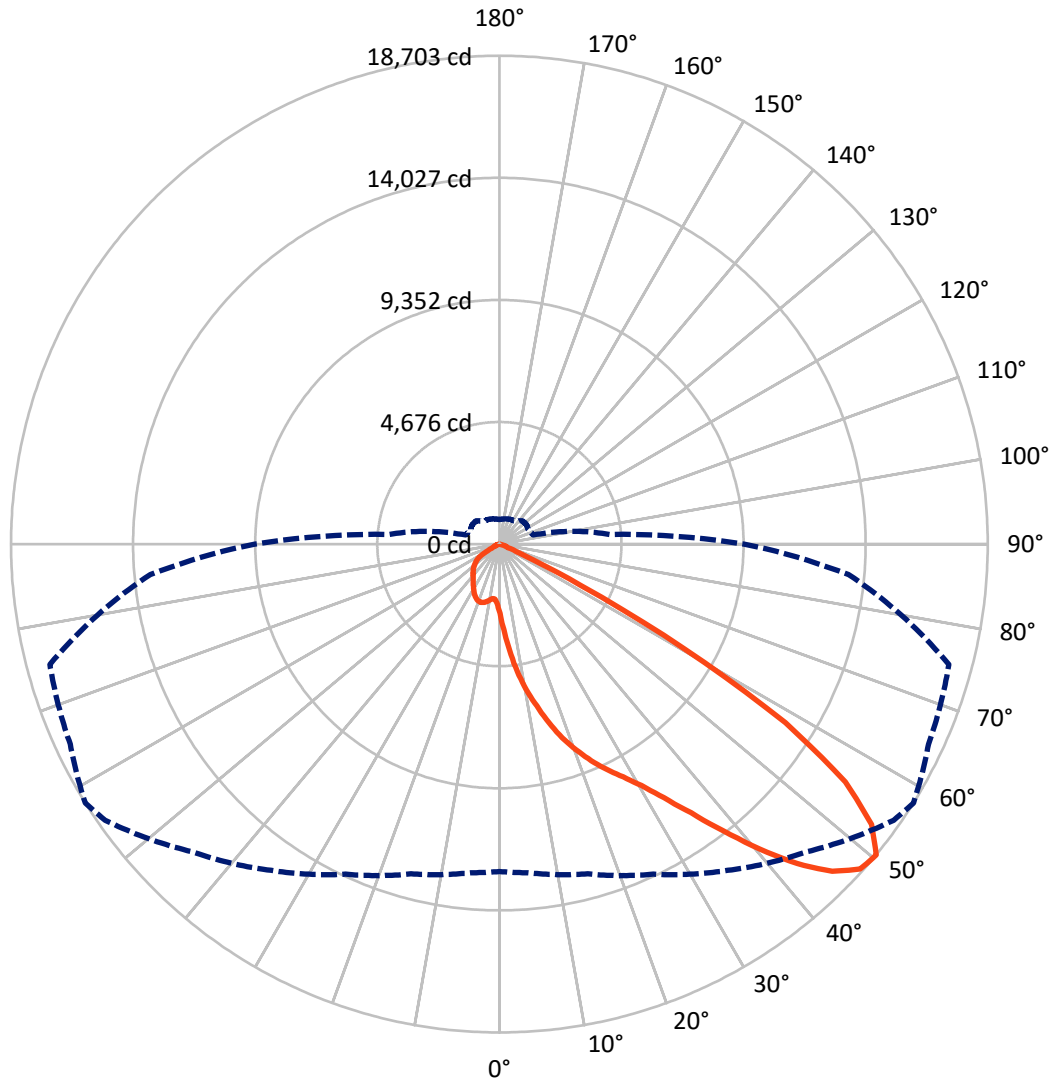
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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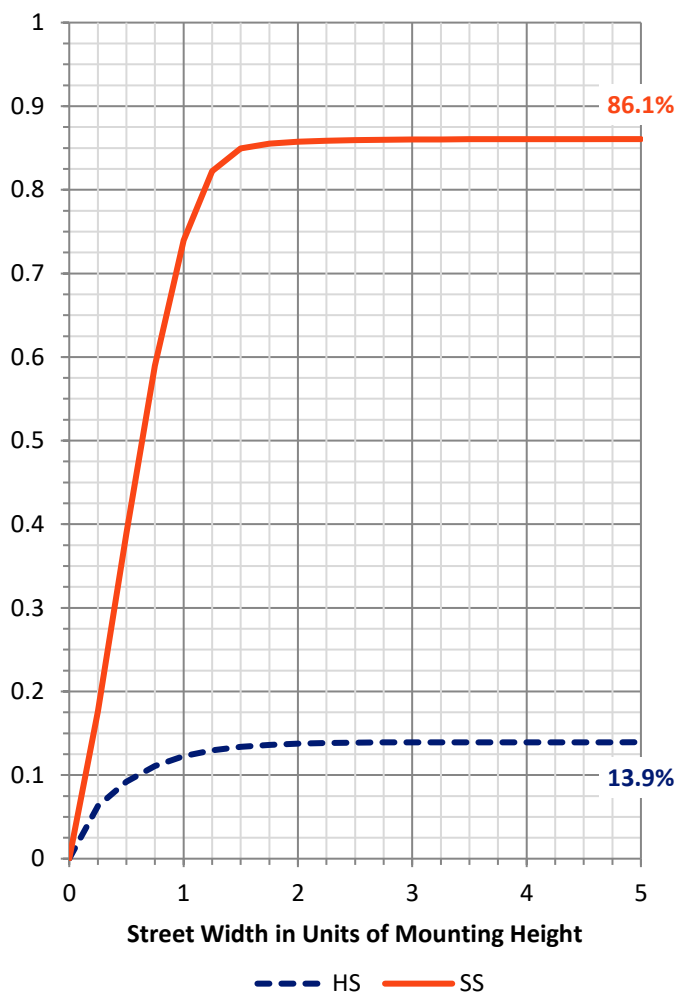
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3113.1	0.0	3113.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19113.2	0.0	19113.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	22226.3	0.0	22226.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	1.5
10°-20°	1302.0	5.9
20°-30°	2634.7	11.9
30°-40°	4661.1	21.0
40°-50°	6794.8	30.6
50°-60°	5446.2	24.5
60°-70°	981.2	4.4
70°-80°	77.3	0.3
80°-90°	0.0	0.0
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°	22226.3	100.0
0°-180°	22226.3	100.0

Coefficient of Utilization



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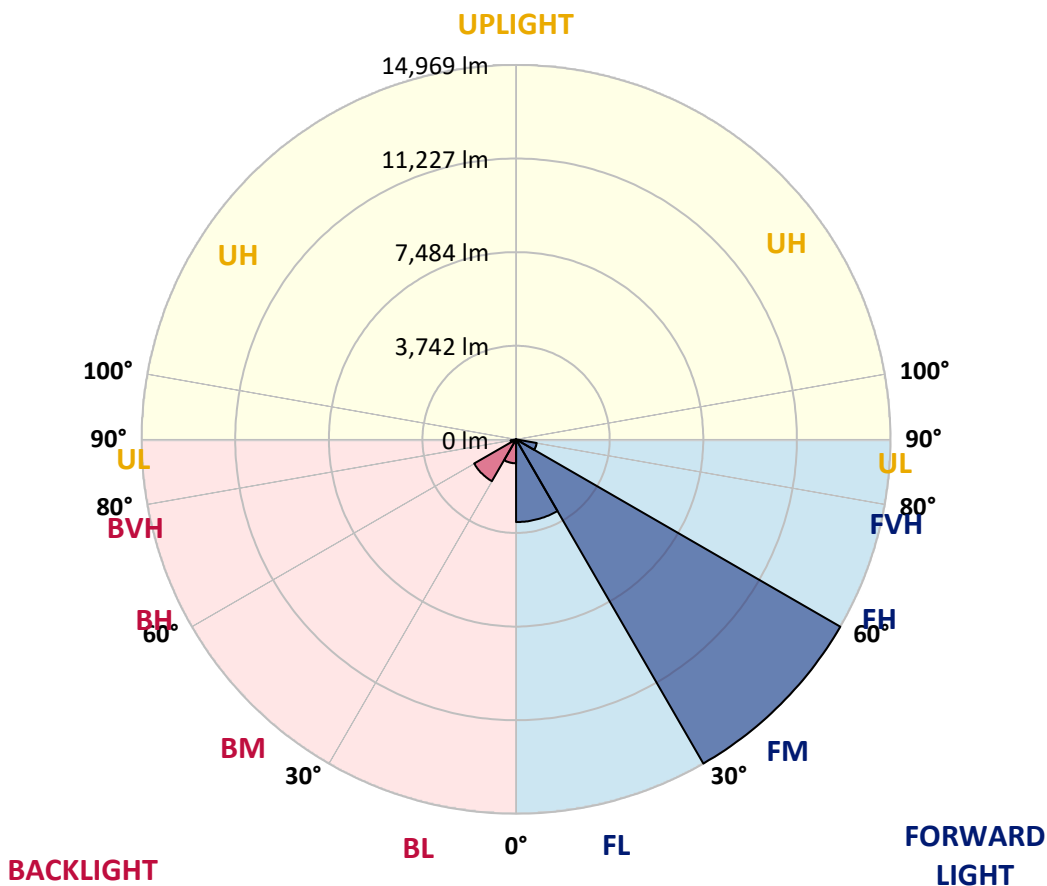
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3307.2	14.9			
FM (30°-60°)	14968.7	67.3			
FH (60°-80°)	837.3	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	958.4	4.3	B2/1000		
BM (30°-60°)	1933.4	8.7	B2/2500		
BH (60°-80°)	221.3	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9
2.5°	3928.9	3867.1	3831.4	3802.9	3676.9	3477.3	3346.5	3277.6	3163.5	2971.0	2804.6
5°	5126.8	5081.6	4998.4	4941.4	4779.8	4496.9	4204.6	4088.1	3829.0	3394.1	3004.3
7.5°	5920.6	5887.4	5856.5	5780.4	5628.3	5371.6	5048.3	4927.1	4527.8	3909.8	3270.5
10°	6531.5	6505.3	6469.7	6467.3	6348.5	6117.9	5801.8	5675.8	5243.2	4470.8	3584.2
12.5°	7068.6	7047.2	7040.1	7106.7	7030.6	6859.5	6517.2	6360.3	5901.6	5043.6	3931.2
15°	7437.0	7432.3	7463.2	7593.9	7636.7	7558.2	7270.7	7101.9	6574.2	5618.8	4313.9
17.5°	7605.8	7620.0	7679.5	7905.3	8095.4	8162.0	7940.9	7798.3	7242.1	6201.1	4722.7
20°	7893.4	7888.6	7924.3	8138.2	8371.1	8608.8	8542.2	8421.0	7917.1	6816.7	5176.7
22.5°	8703.9	8634.9	8558.9	8592.2	8675.3	8953.4	9077.0	9015.2	8613.5	7448.9	5644.9
25°	9949.3	9878.0	9633.2	9395.5	9238.6	9364.6	9533.4	9564.3	9305.2	8097.8	6134.5
27.5°	11270.8	11206.6	10930.9	10574.4	10125.2	9906.5	10032.5	10094.3	9985.0	8870.2	6655.1
30°	12509.1	12423.6	12121.7	11679.6	11159.1	10824.0	10681.4	10724.2	10788.3	9785.3	7265.9
32.5°	13583.5	13519.3	13158.0	12692.1	12190.6	11841.3	11508.5	11579.8	11736.7	10904.8	8047.9
35°	14493.8	14460.5	14077.8	13614.4	13084.3	12906.1	12620.8	12635.1	12792.0	12257.2	9001.0
37.5°	15285.2	15228.2	14881.2	14451.0	14030.3	14001.8	13923.3	13930.5	14011.3	13833.0	10096.7
40°	15784.4	15732.1	15484.9	15218.7	14919.2	14924.0	15330.4	15361.3	15268.6	15380.3	11254.2
42.5°	15972.1	15934.1	15801.0	15803.4	15772.5	15912.7	16675.7	16732.7	16400.0	16594.9	12242.9
45°	15646.5	15629.9	15639.4	15981.6	16352.4	16785.0	17776.1	17876.0	17405.4	17400.6	13015.4
47.5°	14596.0	14562.7	14840.8	15423.1	16281.1	17122.5	18441.6	18596.1	18108.9	17861.7	13500.3
50°	12537.7	12632.7	13072.4	13947.1	15252.0	16659.0	18434.5	18703.1	18135.0	17821.3	13419.5
52.5°	9081.8	9062.8	10025.4	11228.0	12815.7	15175.9	17455.3	17847.4	17500.4	17424.4	13238.8
55°	4941.4	5114.9	5763.8	7356.2	9338.5	12368.9	15218.7	16074.3	16476.0	17279.4	13564.4
57.5°	1815.9	1891.9	2298.4	3425.0	4943.8	7691.3	11625.0	12915.6	14156.3	16875.3	13509.8
60°	732.1	746.3	907.9	1259.7	2077.3	3914.6	6973.6	8119.2	9288.6	12917.9	10367.6
62.5°	532.4	551.4	615.6	736.8	1050.5	1711.3	3006.7	3496.3	3821.9	6398.4	5107.8
65°	430.2	444.5	496.8	551.4	694.0	919.8	969.7	934.1	929.3	1654.3	1171.8
67.5°	356.5	370.8	408.8	446.8	499.1	458.7	332.8	349.4	285.2	282.8	230.6
70°	261.4	278.1	316.1	356.5	299.5	123.6	192.5	285.2	216.3	180.6	175.9
72.5°	197.3	209.2	244.8	232.9	87.9	47.5	128.3	206.8	166.4	133.1	130.7
75°	147.4	154.5	123.6	38.0	9.5	11.9	47.5	85.6	92.7	76.1	76.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	7.1	9.5	11.9	14.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9	2654.9
2.5°	2709.6	2609.7	2467.1	2348.3	2258.0	2170.0	2103.5	2036.9	2034.5	2001.3	1994.1
5°	2823.6	2643.0	2381.6	2193.8	2079.7	2010.8	1963.2	1939.5	1927.6	1915.7	1911.0
7.5°	2987.6	2728.6	2367.3	2167.6	2072.6	2027.4	1994.1	1979.9	1972.7	1963.2	1960.9
10°	3189.7	2852.2	2419.6	2217.6	2134.4	2091.6	2055.9	2034.5	2022.7	2006.0	2001.3
12.5°	3432.1	3004.3	2502.8	2300.7	2212.8	2155.8	2108.2	2077.3	2060.7	2039.3	2034.5
15°	3693.6	3168.3	2595.5	2376.8	2272.2	2198.5	2139.1	2091.6	2060.7	2034.5	2027.4
17.5°	3964.5	3334.7	2678.7	2429.1	2300.7	2212.8	2127.2	2063.1	2025.0	1991.8	1982.3
20°	4268.7	3505.8	2733.3	2438.6	2291.2	2174.8	2075.0	1994.1	1956.1	1911.0	1901.4
22.5°	4587.2	3665.0	2757.1	2417.2	2239.0	2103.5	1996.5	1913.3	1858.7	1811.1	1796.9
25°	4896.2	3807.6	2745.2	2357.8	2160.5	2003.6	1894.3	1808.8	1749.3	1701.8	1689.9
27.5°	5224.2	3926.5	2702.4	2269.9	2053.6	1894.3	1789.7	1716.1	1661.4	1609.1	1597.2
30°	5592.6	4035.8	2633.5	2162.9	1927.6	1782.6	1701.8	1651.9	1592.5	1537.8	1521.2
32.5°	6037.1	4133.3	2533.7	2034.5	1815.9	1685.2	1640.0	1602.0	1533.0	1476.0	1464.1
35°	6545.7	4214.1	2407.7	1901.4	1706.5	1623.4	1613.9	1563.9	1473.6	1407.1	1392.8
37.5°	7135.2	4292.5	2258.0	1770.7	1625.7	1594.8	1597.2	1511.6	1402.3	1321.5	1312.0
40°	7769.8	4370.9	2091.6	1656.6	1552.1	1578.2	1556.8	1435.6	1257.3	1178.9	1169.4
42.5°	8430.5	4456.5	1922.8	1549.7	1490.3	1514.0	1483.1	1283.5	1155.1	1114.7	1110.0
45°	9027.1	4558.7	1739.8	1442.7	1428.5	1421.3	1369.0	1162.3	1107.6	1079.1	1076.7
47.5°	9457.3	4542.1	1544.9	1340.5	1361.9	1338.1	1178.9	1105.2	1060.1	1022.0	1012.5
50°	9378.9	4252.1	1342.9	1226.4	1276.3	1255.0	1060.1	1038.7	998.3	957.9	943.6
52.5°	9179.2	3857.6	1167.0	1105.2	1183.6	1133.7	979.2	957.9	922.2	869.9	853.3
55°	9286.2	3486.8	1029.2	1007.8	1088.6	938.8	888.9	855.7	817.6	760.6	753.4
57.5°	8941.5	2845.0	827.1	841.4	962.6	801.0	779.6	727.3	663.1	625.1	620.3
60°	6189.2	1528.3	518.1	534.8	696.4	672.6	698.8	651.2	572.8	537.2	530.0
62.5°	2842.7	613.2	282.8	271.0	366.0	456.3	599.0	594.2	496.8	439.7	435.0
65°	689.3	280.5	202.0	190.1	206.8	273.3	389.8	468.2	401.7	335.1	328.0
67.5°	223.4	228.2	185.4	173.5	183.0	204.4	232.9	259.1	256.7	235.3	230.6
70°	178.3	206.8	171.1	156.9	156.9	164.0	156.9	126.0	109.3	118.8	123.6
72.5°	133.1	156.9	135.5	121.2	116.5	114.1	97.4	71.3	49.9	45.2	42.8
75°	78.4	87.9	83.2	71.3	66.6	59.4	47.5	30.9	16.6	11.9	7.1
77.5°	14.3	16.6	19.0	14.3	11.9	9.5	7.1	2.4	0.0	0.0	0.0
80°	0.0	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)