

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: P640967

Luminaire Tested: GWS-SA5E-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640967
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-SA5E-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: 19991 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

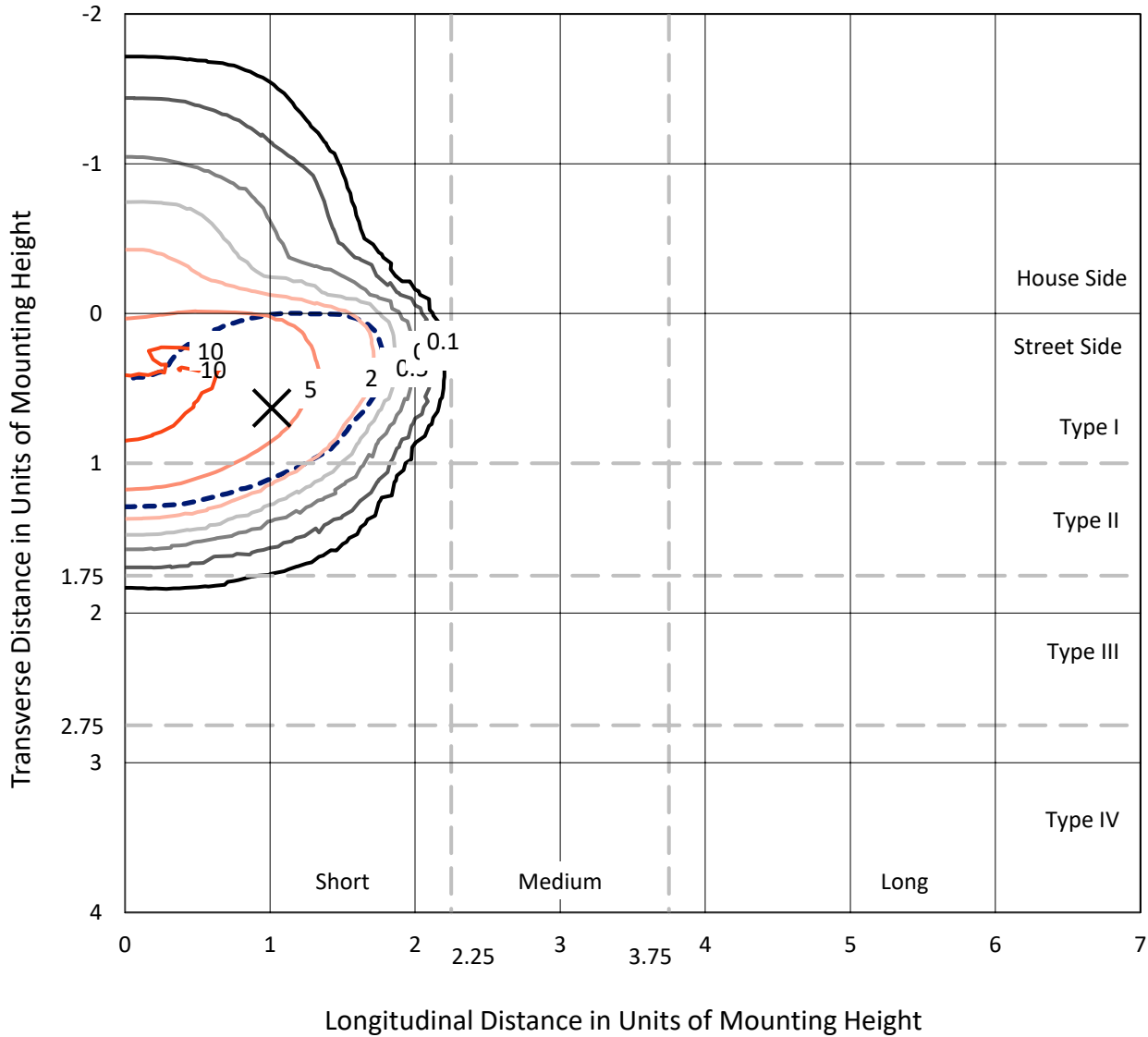
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

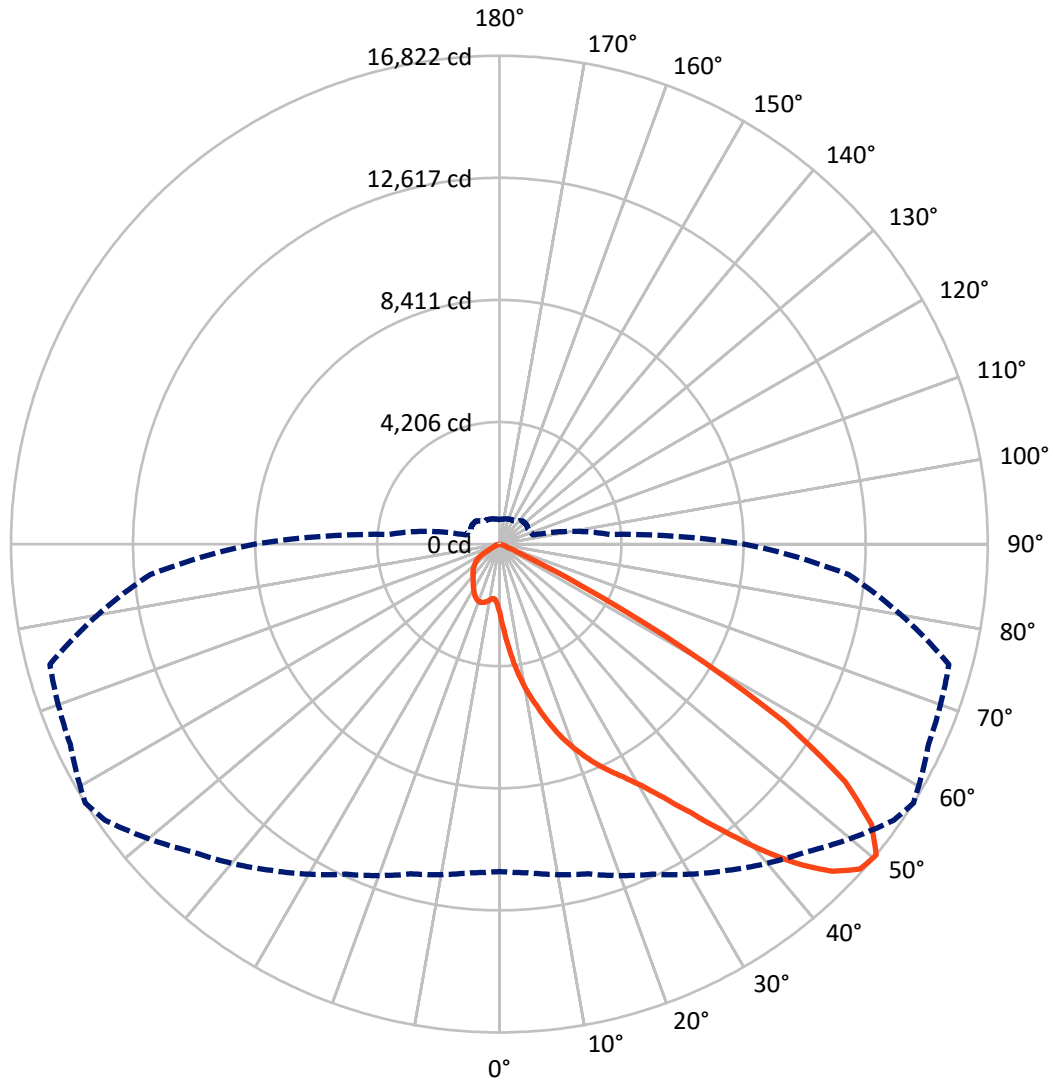
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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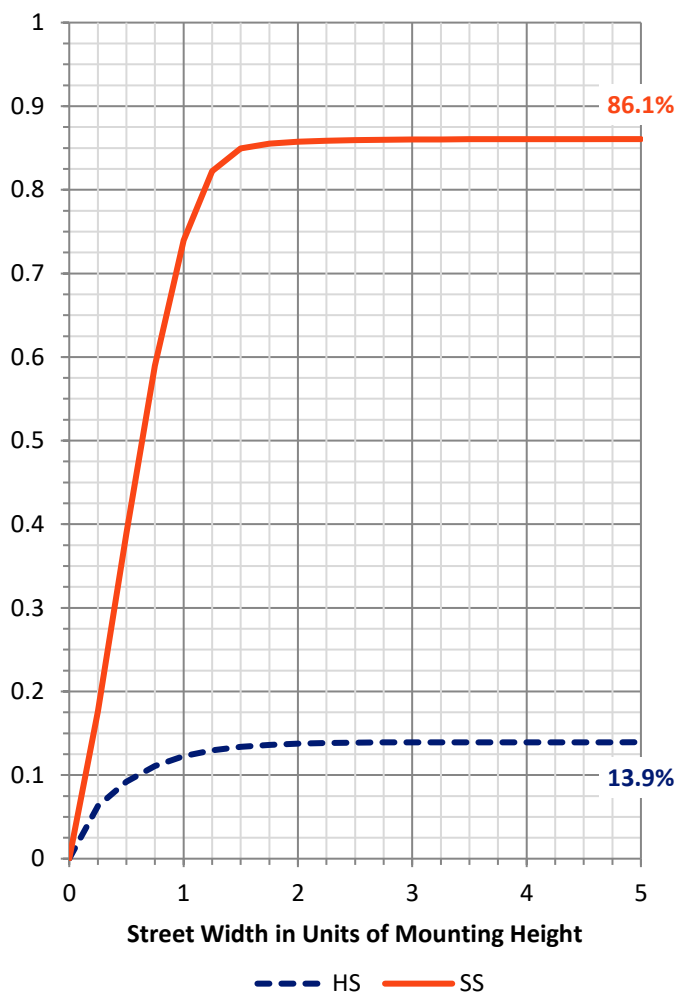
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2800.0	0.0	2800.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17191.0	0.0	17191.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	19991.0	0.0	19991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	1.5
10°-20°	1171.1	5.9
20°-30°	2369.7	11.9
30°-40°	4192.3	21.0
40°-50°	6111.5	30.6
50°-60°	4898.5	24.5
60°-70°	882.5	4.4
70°-80°	69.6	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°	19991.0	100.0
0°-180°	19991.0	100.0

Coefficient of Utilization



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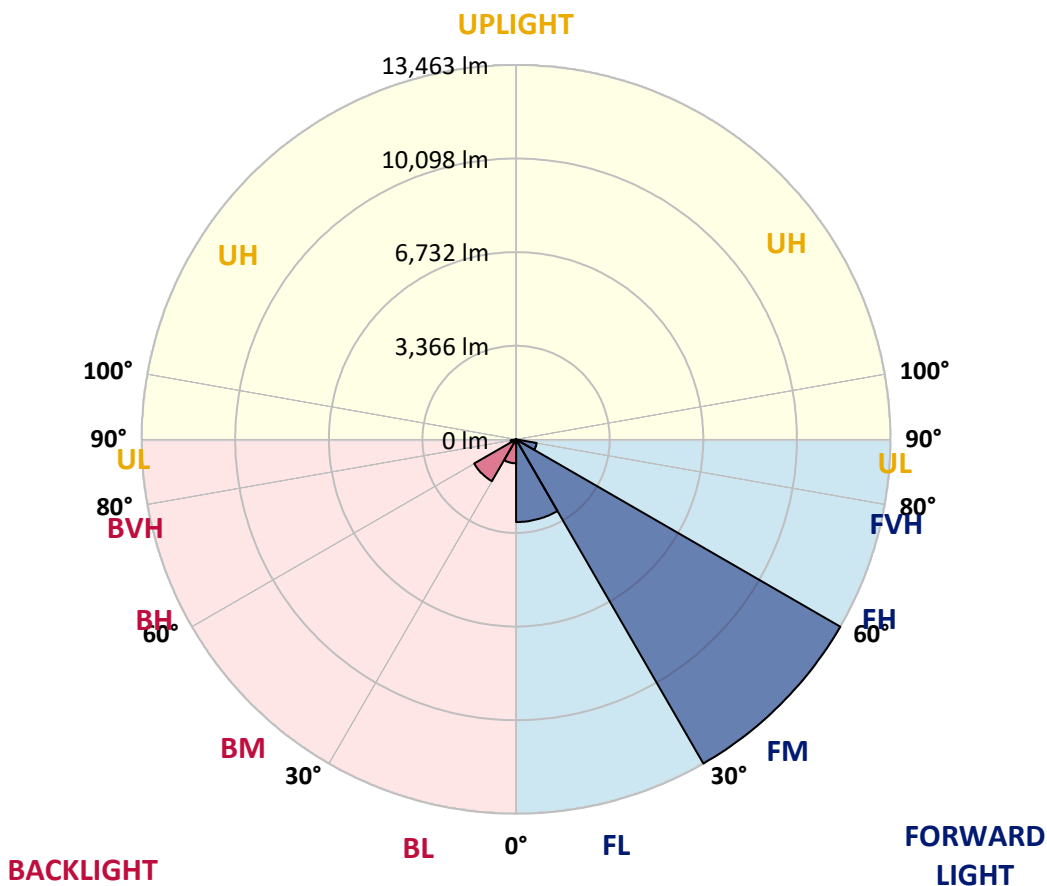
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2974.6	14.9			
FM (30°-60°)	13463.3	67.3			
FH (60°-80°)	753.1	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	862.0	4.3	B2/1000		
BM (30°-60°)	1738.9	8.7	B2/2500		
BH (60°-80°)	199.0	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°	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9
2.5°	3533.7	3478.2	3446.1	3420.4	3307.1	3127.6	3010.0	2948.0	2845.4	2672.2	2522.6
5°	4611.2	4570.6	4495.7	4444.4	4299.1	4044.7	3781.7	3677.0	3443.9	3052.7	2702.1
7.5°	5325.2	5295.3	5267.5	5199.1	5062.2	4831.4	4540.6	4431.6	4072.5	3516.6	2941.6
10°	5874.6	5851.1	5819.0	5816.9	5710.0	5502.6	5218.3	5105.0	4715.9	4021.1	3223.8
12.5°	6357.7	6338.5	6332.1	6391.9	6323.5	6169.6	5861.8	5720.7	5308.1	4536.4	3535.9
15°	6689.1	6684.8	6712.6	6830.2	6868.7	6798.1	6539.4	6387.7	5913.1	5053.7	3880.1
17.5°	6840.9	6853.7	6907.1	7110.2	7281.2	7341.1	7142.3	7014.0	6513.8	5577.4	4247.8
20°	7099.5	7095.3	7127.3	7319.7	7529.2	7743.0	7683.2	7574.1	7120.9	6131.1	4656.1
22.5°	7828.5	7766.5	7698.1	7728.0	7802.9	8053.0	8164.1	8108.6	7747.3	6699.8	5077.2
25°	8948.7	8884.6	8664.4	8450.6	8309.5	8422.8	8574.6	8602.4	8369.4	7283.4	5517.6
27.5°	10137.3	10079.6	9831.6	9510.9	9106.9	8910.2	9023.5	9079.1	8980.8	7978.2	5985.8
30°	11251.1	11174.1	10902.6	10505.0	10036.8	9735.4	9607.1	9645.6	9703.3	8801.2	6535.2
32.5°	12217.4	12159.6	11834.7	11415.7	10964.6	10650.4	10351.1	10415.2	10556.3	9808.1	7238.5
35°	13036.1	13006.2	12662.0	12245.2	11768.4	11608.1	11351.6	11364.4	11505.5	11024.5	8095.7
37.5°	13748.0	13696.7	13384.6	12997.6	12619.3	12593.6	12523.1	12529.5	12602.2	12441.8	9081.3
40°	14196.9	14149.9	13927.6	13688.2	13418.8	13423.1	13788.6	13816.4	13733.0	13833.5	10122.3
42.5°	14365.8	14331.6	14211.9	14214.0	14186.3	14312.4	14998.6	15049.9	14750.6	14925.9	11011.7
45°	14072.9	14058.0	14066.5	14374.4	14707.9	15096.9	15988.4	16078.2	15654.9	15650.6	11706.4
47.5°	13128.1	13098.1	13348.2	13872.0	14643.7	15400.5	16587.0	16725.9	16287.7	16065.4	12142.5
50°	11276.7	11362.3	11757.7	12544.4	13718.1	14983.6	16580.6	16822.1	16311.2	16029.0	12069.9
52.5°	8168.4	8151.3	9017.1	10098.8	11526.9	13649.7	15699.8	16052.5	15740.4	15672.0	11907.4
55°	4444.4	4600.5	5184.1	6616.4	8399.3	11125.0	13688.2	14457.7	14819.0	15541.6	12200.3
57.5°	1633.3	1701.7	2067.2	3080.5	4446.6	6917.8	10455.8	11616.6	12732.6	15178.2	12151.1
60°	658.4	671.3	816.6	1133.0	1868.4	3520.9	6272.2	7302.6	8354.4	11618.8	9325.0
62.5°	478.9	496.0	553.7	662.7	944.9	1539.2	2704.3	3144.7	3437.5	5754.9	4594.1
65°	386.9	399.8	446.8	496.0	624.2	827.3	872.2	840.1	835.9	1487.9	1053.9
67.5°	320.7	333.5	367.7	401.9	448.9	412.6	299.3	314.3	256.5	254.4	207.4
70°	235.2	250.1	284.3	320.7	269.4	111.2	173.2	256.5	194.5	162.5	158.2
72.5°	177.4	188.1	220.2	209.5	79.1	42.8	115.4	186.0	149.6	119.7	117.6
75°	132.5	139.0	111.2	34.2	8.6	10.7	42.8	77.0	83.4	68.4	68.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	6.4	8.6	10.7	12.8
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°	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9
2.5°	2437.1	2347.3	2219.0	2112.1	2030.9	1951.8	1891.9	1832.1	1829.9	1800.0	1793.6
5°	2539.7	2377.2	2142.0	1973.2	1870.5	1808.6	1765.8	1744.4	1733.7	1723.0	1718.8
7.5°	2687.2	2454.2	2129.2	1949.6	1864.1	1823.5	1793.6	1780.8	1774.4	1765.8	1763.7
10°	2868.9	2565.3	2176.3	1994.5	1919.7	1881.2	1849.2	1829.9	1819.2	1804.3	1800.0
12.5°	3086.9	2702.1	2251.1	2069.4	1990.3	1939.0	1896.2	1868.4	1853.4	1834.2	1829.9
15°	3322.1	2849.6	2334.4	2137.8	2043.7	1977.4	1924.0	1881.2	1853.4	1829.9	1823.5
17.5°	3565.8	2999.3	2409.3	2184.8	2069.4	1990.3	1913.3	1855.6	1821.4	1791.5	1782.9
20°	3839.4	3153.2	2458.4	2193.4	2060.8	1956.1	1866.3	1793.6	1759.4	1718.8	1710.2
22.5°	4125.9	3296.4	2479.8	2174.1	2013.8	1891.9	1795.7	1720.9	1671.7	1629.0	1616.2
25°	4403.8	3424.7	2469.1	2120.7	1943.2	1802.1	1703.8	1626.8	1573.4	1530.6	1520.0
27.5°	4698.8	3531.6	2430.6	2041.6	1847.0	1703.8	1609.7	1543.5	1494.3	1447.3	1436.6
30°	5030.2	3629.9	2368.7	1945.4	1733.7	1603.3	1530.6	1485.8	1432.3	1383.1	1368.2
32.5°	5429.9	3717.6	2278.9	1829.9	1633.3	1515.7	1475.1	1440.9	1378.9	1327.6	1316.9
35°	5887.4	3790.3	2165.6	1710.2	1534.9	1460.1	1451.5	1406.7	1325.4	1265.6	1252.7
37.5°	6417.6	3860.8	2030.9	1592.6	1462.2	1434.4	1436.6	1359.6	1261.3	1188.6	1180.0
40°	6988.4	3931.4	1881.2	1490.0	1396.0	1419.5	1400.2	1291.2	1130.9	1060.3	1051.8
42.5°	7582.7	4008.3	1729.5	1393.8	1340.4	1361.8	1334.0	1154.4	1039.0	1002.6	998.3
45°	8119.3	4100.2	1564.8	1297.6	1284.8	1278.4	1231.4	1045.4	996.2	970.5	968.4
47.5°	8506.2	4085.3	1389.6	1205.7	1224.9	1203.6	1060.3	994.1	953.4	919.2	910.7
50°	8435.6	3824.5	1207.8	1103.1	1148.0	1128.7	953.4	934.2	897.9	861.5	848.7
52.5°	8256.1	3469.6	1049.6	994.1	1064.6	1019.7	880.8	861.5	829.5	782.4	767.5
55°	8352.3	3136.1	925.7	906.4	979.1	844.4	799.5	769.6	735.4	684.1	677.7
57.5°	8042.3	2558.9	743.9	756.8	865.8	720.4	701.2	654.2	596.4	562.2	558.0
60°	5566.8	1374.6	466.0	481.0	626.4	605.0	628.5	585.7	515.2	483.1	476.7
62.5°	2556.8	551.5	254.4	243.7	329.2	410.5	538.7	534.4	446.8	395.5	391.2
65°	620.0	252.3	181.7	171.0	186.0	245.8	350.6	421.1	361.3	301.4	295.0
67.5°	201.0	205.2	166.7	156.1	164.6	183.8	209.5	233.0	230.9	211.6	207.4
70°	160.3	186.0	153.9	141.1	141.1	147.5	141.1	113.3	98.3	106.9	111.2
72.5°	119.7	141.1	121.9	109.0	104.8	102.6	87.6	64.1	44.9	40.6	38.5
75°	70.5	79.1	74.8	64.1	59.9	53.4	42.8	27.8	15.0	10.7	6.4
77.5°	12.8	15.0	17.1	12.8	10.7	8.6	6.4	2.1	0.0	0.0	0.0
80°	0.0	2.1	2.1	2.1	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)