

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: P633602

Luminaire Tested: GWS-SA2F-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10199 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

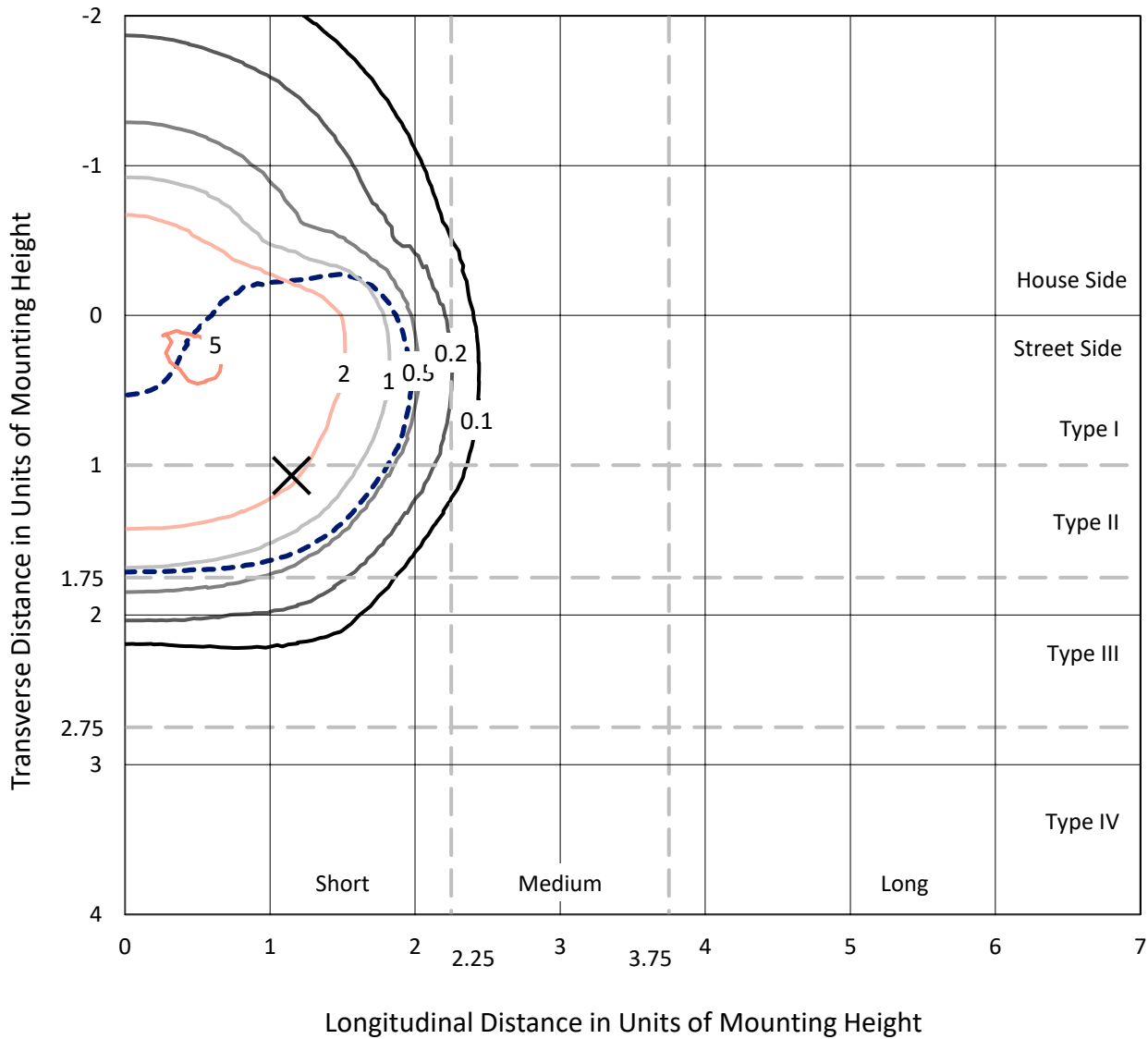
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

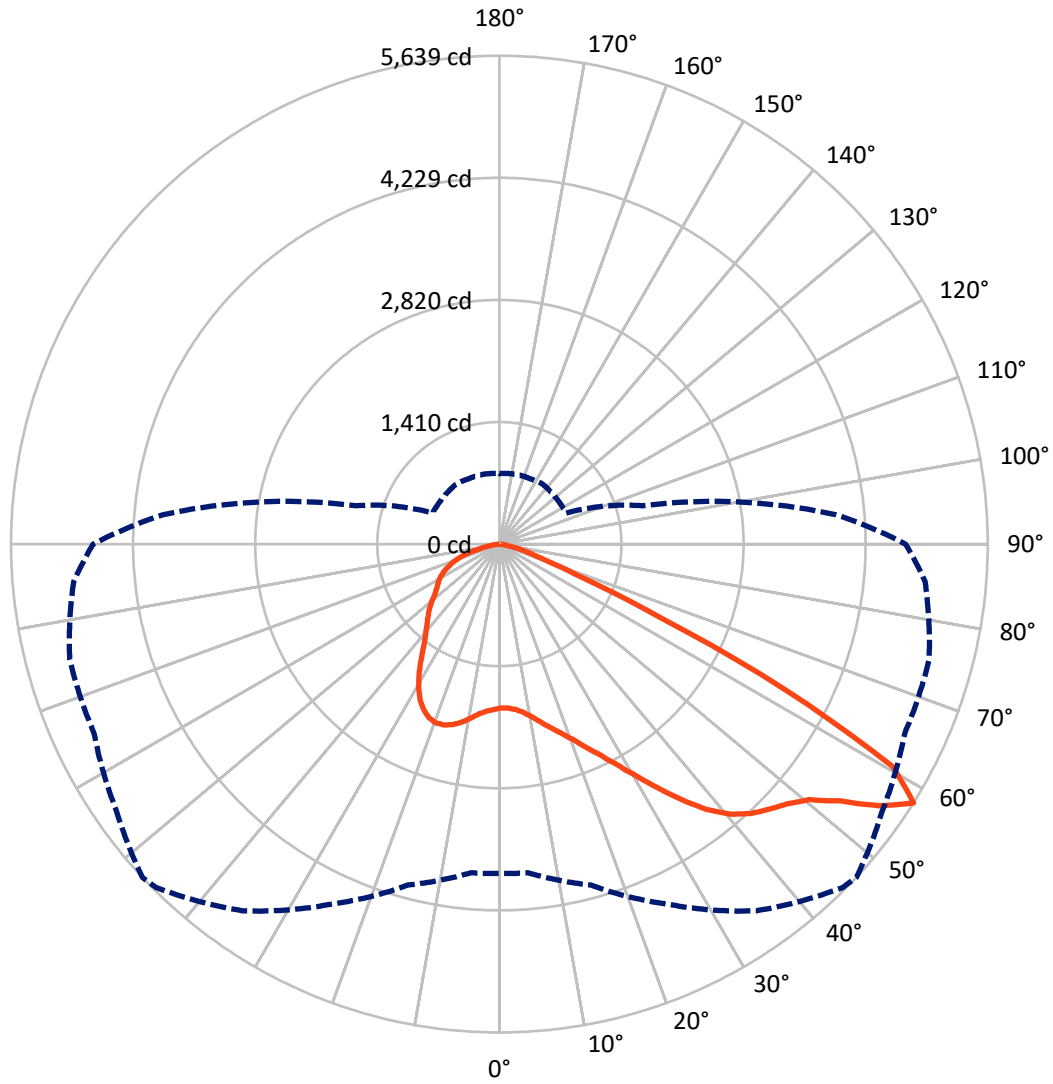
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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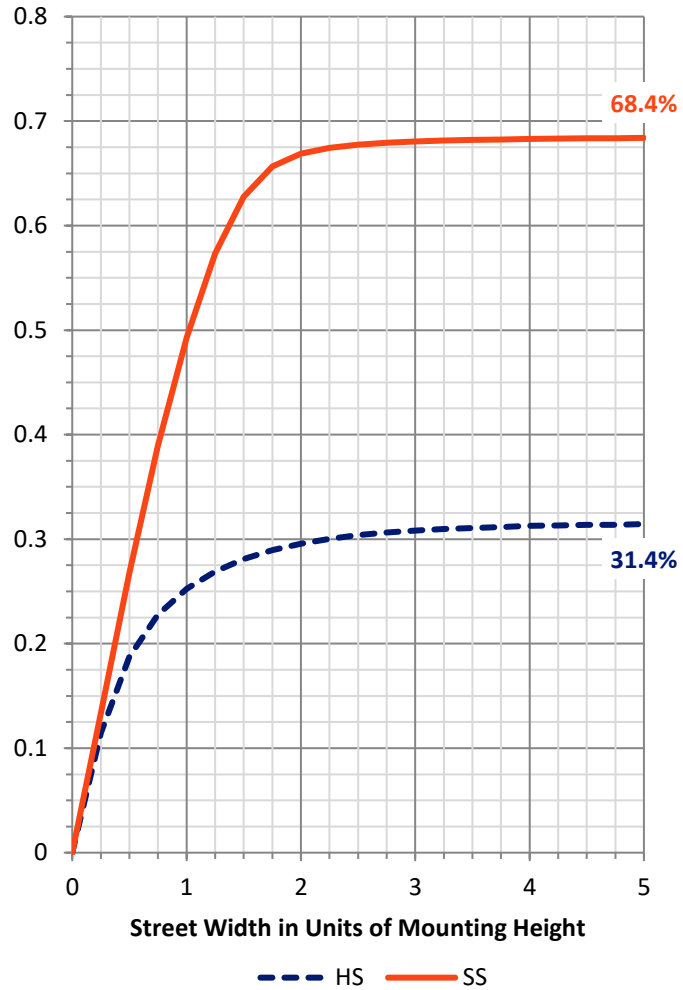
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3228.0	0.0	3228.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6971.0	0.0	6971.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	10199.0	0.0	10199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	1.8
10°-20°	613.6	6.0
20°-30°	1104.8	10.8
30°-40°	1668.7	16.4
40°-50°	2247.1	22.0
50°-60°	2700.2	26.5
60°-70°	1315.1	12.9
70°-80°	324.0	3.2
80°-90°	38.9	0.4
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°	10199.0	100.0
0°-180°	10199.0	100.0

Coefficient of Utilization



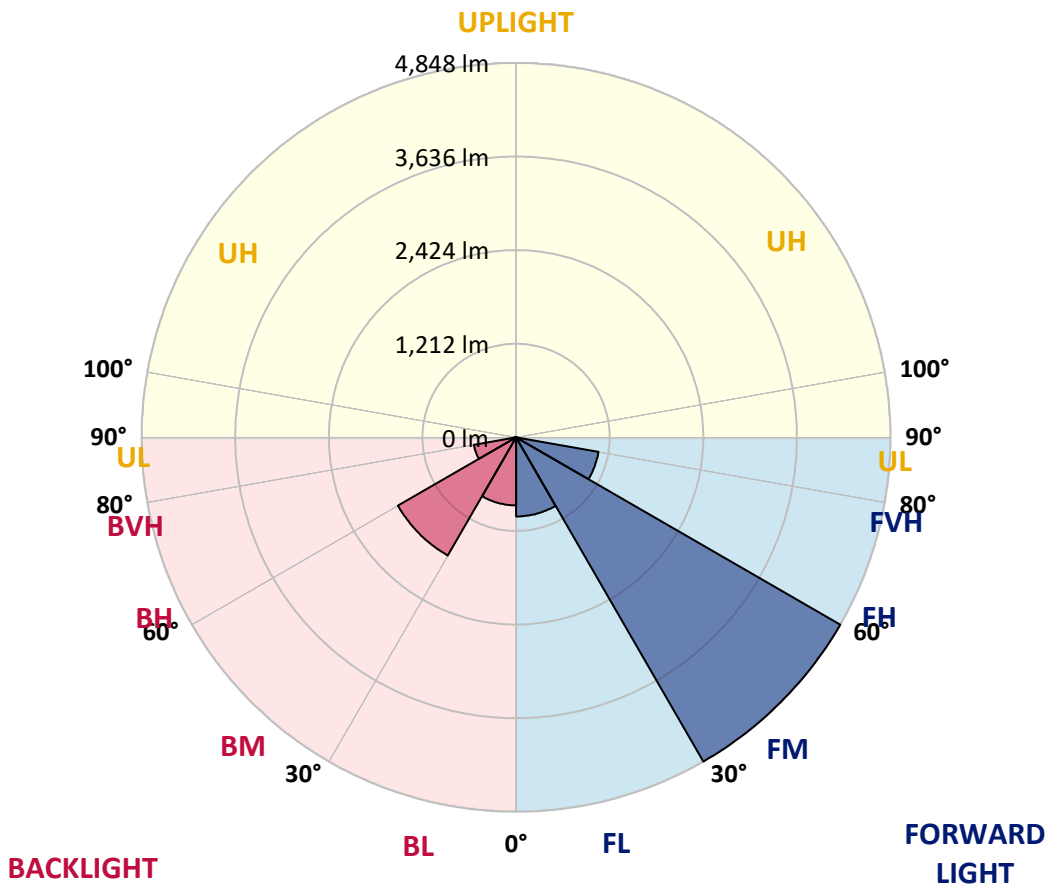
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.4	10.0			
FM (30°-60°)	4848.1	47.5			
FH (60°-80°)	1083.8	10.6			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	880.5	8.6	B2/1000		
BM (30°-60°)	1767.9	17.3	B2/2500		
BH (60°-80°)	555.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	24.3	0.2			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°	47°	55°	65°	75°	85°
0°	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4
2.5°	1888.0	1887.1	1887.1	1892.3	1892.3	1894.0	1896.6	1899.1	1900.0	1895.7	1886.3
5°	1908.6	1908.6	1908.6	1912.8	1912.8	1914.5	1918.0	1918.8	1918.0	1911.1	1901.7
7.5°	1941.1	1941.1	1942.0	1947.1	1951.4	1954.0	1959.9	1959.1	1956.5	1945.4	1933.4
10°	1994.2	1996.8	1999.4	2005.3	2013.9	2019.9	2024.2	2024.2	2020.8	2003.6	1988.2
12.5°	2069.6	2073.0	2075.6	2080.7	2087.6	2097.9	2107.3	2107.3	2103.0	2081.6	2058.5
15°	2157.8	2161.3	2160.4	2162.1	2175.0	2189.5	2197.2	2202.4	2204.1	2174.1	2138.1
17.5°	2258.9	2262.3	2258.9	2253.8	2255.5	2278.6	2292.3	2311.2	2322.3	2282.0	2224.6
20°	2350.6	2347.1	2347.1	2350.6	2355.7	2384.0	2404.5	2435.4	2449.1	2400.3	2311.2
22.5°	2447.4	2455.1	2451.6	2451.6	2472.2	2519.3	2544.2	2584.4	2599.0	2535.6	2415.7
25°	2572.4	2579.3	2577.6	2579.3	2603.3	2670.1	2694.9	2769.5	2784.0	2693.2	2531.3
27.5°	2709.5	2720.6	2725.8	2724.1	2762.6	2850.0	2880.8	2984.5	3011.0	2869.7	2654.7
30°	2887.7	2899.7	2903.9	2902.2	2947.6	3066.7	3101.8	3220.0	3257.7	3078.7	2811.4
32.5°	3094.1	3106.1	3119.0	3124.1	3182.3	3304.0	3354.5	3477.0	3531.0	3320.3	3000.7
35°	3298.8	3309.1	3334.0	3374.2	3453.9	3578.1	3622.7	3743.4	3795.7	3571.3	3229.5
37.5°	3525.0	3531.8	3553.3	3608.9	3723.7	3841.9	3886.5	4002.1	4008.1	3813.7	3488.2
40°	3772.6	3772.6	3768.3	3823.1	3943.0	4062.1	4100.6	4167.5	4132.3	4000.4	3740.0
42.5°	3982.4	3979.0	3982.4	4033.8	4122.9	4219.7	4253.1	4240.3	4195.7	4143.5	3967.9
45°	4171.7	4174.3	4205.2	4244.6	4290.8	4348.2	4367.9	4295.1	4254.8	4258.3	4150.3
47.5°	4300.2	4302.8	4374.8	4440.7	4469.0	4487.0	4478.4	4377.3	4356.8	4395.3	4290.8
50°	4317.4	4331.1	4455.3	4590.6	4660.9	4663.4	4639.5	4516.1	4510.1	4553.8	4366.2
52.5°	4320.8	4334.5	4489.6	4733.7	4916.1	4954.7	4927.3	4798.8	4736.3	4692.6	4458.7
55°	4307.9	4323.4	4494.7	4829.6	5179.1	5333.3	5335.9	5154.3	4954.7	4925.6	4722.6
57.5°	3803.4	3809.4	4074.9	4585.5	5168.9	5605.7	5639.1	5392.4	5164.6	5137.2	4934.1
60°	2649.5	2673.5	2962.2	3636.4	4342.2	5112.3	5220.2	5148.3	4995.8	4796.2	4233.4
62.5°	1326.9	1347.5	1637.0	2274.3	2994.7	3602.9	3718.6	3794.8	3830.8	3616.7	2882.5
65°	571.4	586.8	766.7	1188.1	1695.3	1989.1	2029.3	2121.0	2345.4	2092.7	1553.1
67.5°	382.1	392.3	484.0	724.7	998.8	1017.7	1011.7	1031.4	1080.2	891.7	701.6
70°	293.0	301.5	363.2	531.1	717.8	614.2	581.6	527.7	573.1	584.2	568.8
72.5°	212.4	219.3	265.6	362.4	449.7	392.3	387.2	414.6	476.3	493.4	484.0
75°	137.1	140.5	168.8	198.7	232.1	251.8	262.1	311.8	374.3	387.2	376.1
77.5°	91.7	94.2	110.5	127.6	131.9	132.8	136.2	158.5	201.3	225.3	222.7
80°	48.0	48.0	54.0	54.0	61.7	73.7	77.1	91.7	111.4	123.4	124.2
82.5°	18.8	19.7	23.1	25.7	30.8	37.7	40.3	48.0	58.3	66.8	74.5
85°	7.7	8.6	9.4	11.1	13.7	17.1	18.0	20.6	27.4	34.3	38.5
87.5°	0.0	0.0	0.9	0.9	1.7	2.6	2.6	3.4	4.3	7.7	10.3
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°	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4	1891.4
2.5°	1897.4	1886.3	1897.4	1900.8	1910.3	1913.7	1907.7	1906.8	1906.8	1898.3	1895.7
5°	1910.3	1900.0	1911.1	1916.3	1930.0	1938.5	1940.2	1947.1	1951.4	1948.0	1947.1
7.5°	1942.0	1929.1	1941.1	1948.8	1966.8	1980.5	1986.5	2001.9	2013.1	2011.3	2010.5
10°	1997.6	1980.5	1994.2	2007.1	2026.8	2043.0	2043.9	2052.5	2063.6	2060.2	2058.5
12.5°	2061.9	2045.6	2061.0	2073.9	2097.0	2103.9	2092.7	2089.3	2091.0	2086.7	2083.3
15°	2140.7	2117.6	2131.3	2145.8	2158.7	2151.0	2127.0	2117.6	2116.7	2110.7	2107.3
17.5°	2219.5	2190.4	2200.7	2208.4	2202.4	2178.4	2148.4	2132.1	2124.4	2112.4	2109.0
20°	2297.5	2260.6	2258.9	2252.9	2225.5	2181.8	2141.6	2109.0	2089.3	2073.0	2067.0
22.5°	2386.5	2335.1	2309.5	2282.0	2222.1	2151.0	2090.2	2043.9	2012.2	1991.6	1984.8
25°	2482.5	2409.7	2356.6	2301.7	2187.8	2085.0	2000.2	1936.8	1899.1	1876.9	1869.1
27.5°	2577.6	2477.3	2397.7	2304.3	2119.3	1989.9	1876.0	1790.3	1752.6	1734.7	1728.7
30°	2706.1	2567.3	2446.5	2270.9	2029.3	1858.0	1715.8	1629.3	1604.5	1591.6	1586.5
32.5°	2854.3	2681.2	2511.6	2200.7	1914.5	1703.8	1553.9	1493.9	1476.8	1452.0	1451.1
35°	3049.6	2844.0	2573.3	2097.0	1769.8	1538.5	1429.7	1386.9	1356.0	1316.6	1313.2
37.5°	3277.4	3047.0	2606.7	1965.1	1601.0	1402.3	1337.2	1289.2	1239.5	1187.3	1180.4
40°	3513.0	3284.3	2609.3	1809.2	1435.7	1312.3	1257.5	1195.0	1133.3	1075.1	1067.3
42.5°	3760.6	3505.3	2563.9	1629.3	1300.4	1234.4	1178.7	1099.9	1030.5	991.1	986.8
45°	3981.6	3683.5	2461.1	1440.0	1200.1	1169.3	1098.2	1013.4	976.5	948.3	942.3
47.5°	4155.5	3801.7	2322.3	1270.4	1118.7	1102.5	1010.0	966.3	938.0	912.3	906.3
50°	4241.1	3828.2	2141.6	1132.5	1043.4	1023.7	960.3	926.9	908.0	887.5	882.3
52.5°	4347.4	3858.2	1985.6	1016.8	969.7	943.1	919.2	892.6	878.9	866.0	861.8
55°	4591.5	3971.3	1903.4	924.3	899.5	887.5	884.0	861.8	857.5	848.9	841.2
57.5°	4690.9	3898.5	1709.0	848.9	843.8	845.5	854.1	833.5	829.2	818.9	813.8
60°	3772.6	2946.8	1157.3	783.8	797.5	808.7	817.2	796.7	790.7	788.9	782.1
62.5°	2417.4	1812.6	807.8	723.0	743.5	757.3	762.4	742.7	738.4	752.1	753.0
65°	1258.4	987.7	655.3	657.9	675.0	695.6	705.9	699.0	697.3	711.9	712.7
67.5°	642.5	603.9	571.4	580.8	594.5	621.1	645.0	675.0	685.3	687.0	687.9
70°	547.4	530.2	514.0	520.0	534.5	549.1	572.2	586.8	569.7	565.4	563.7
72.5°	466.0	453.2	445.4	452.3	460.0	457.4	450.6	457.4	460.0	460.9	461.7
75°	362.4	352.9	346.9	347.8	347.8	338.4	325.5	317.8	309.2	302.4	302.4
77.5°	221.9	223.6	229.6	228.7	227.9	224.4	211.6	204.7	184.2	178.2	178.2
80°	126.8	129.3	135.3	137.1	137.1	132.8	119.9	112.2	102.8	98.5	97.7
82.5°	77.1	80.5	83.9	85.7	86.5	81.4	70.2	64.2	59.1	54.8	54.8
85°	40.3	42.0	45.4	46.3	43.7	38.5	32.6	30.0	24.8	24.0	24.0
87.5°	11.1	12.0	13.7	11.1	10.3	7.7	4.3	3.4	1.7	0.9	0.9
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)