

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: P639266

Luminaire Tested: GWS-SA5B-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10964.4 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

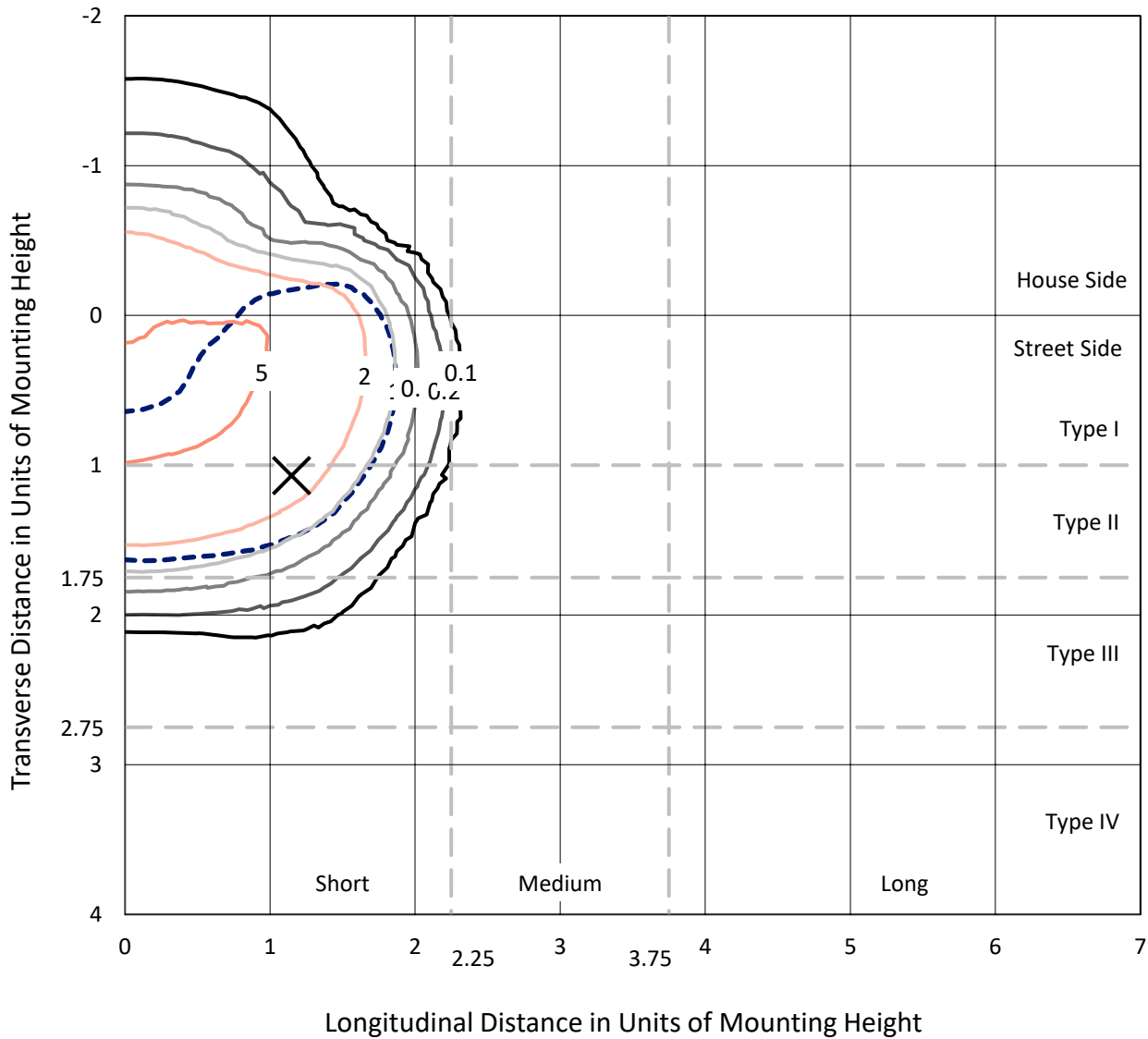
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

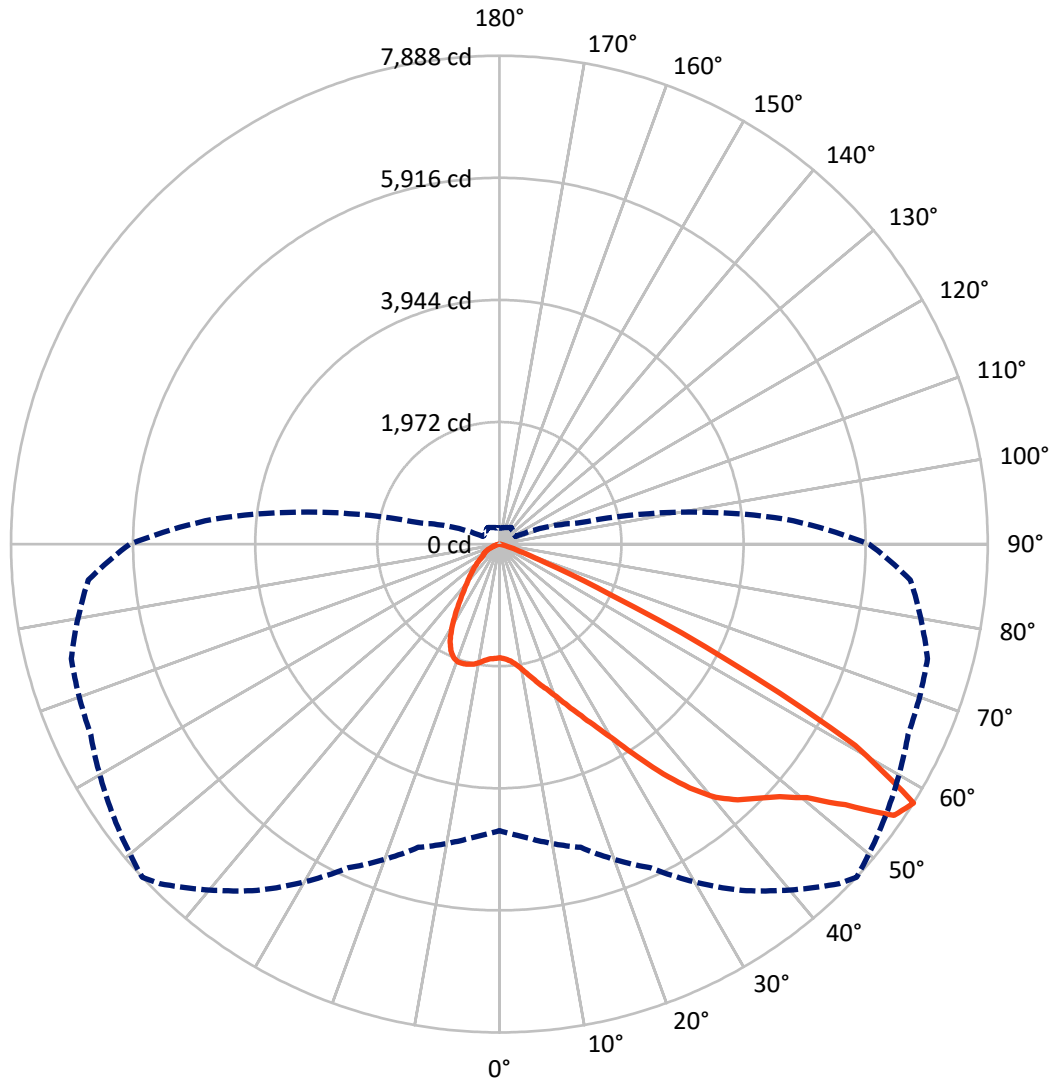
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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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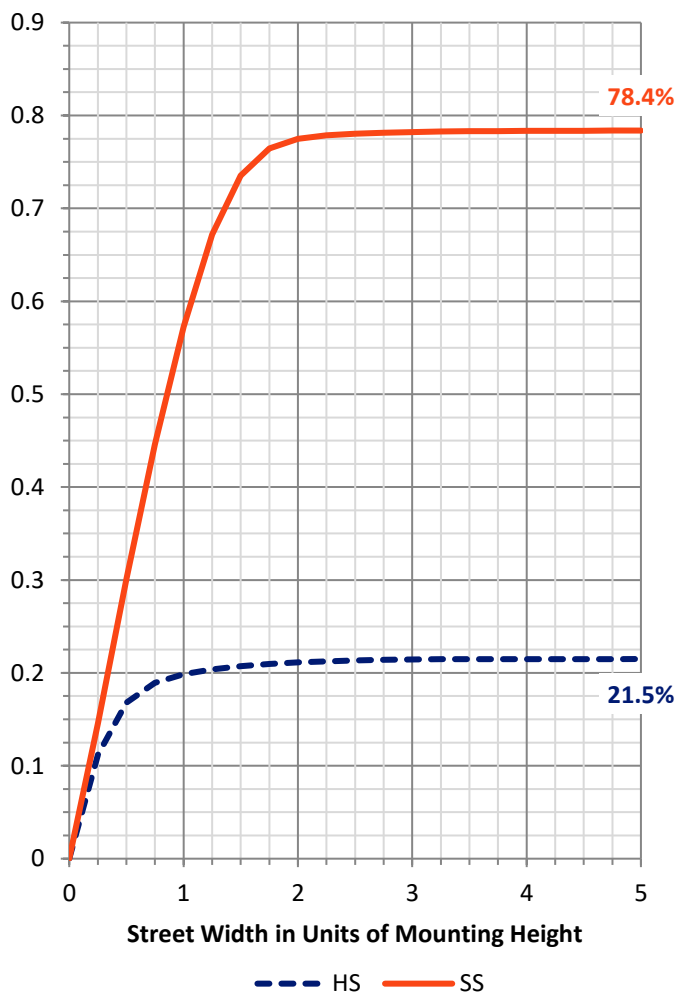
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2378.7	0.0	2378.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8585.7	0.0	8585.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	10964.4	0.0	10964.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.7
10°-20°	616.2	5.6
20°-30°	1144.1	10.4
30°-40°	1831.4	16.7
40°-50°	2677.1	24.4
50°-60°	3304.0	30.1
60°-70°	1104.0	10.1
70°-80°	102.9	0.9
80°-90°	2.1	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°	10964.4	100.0
0°-180°	10964.4	100.0

Coefficient of Utilization



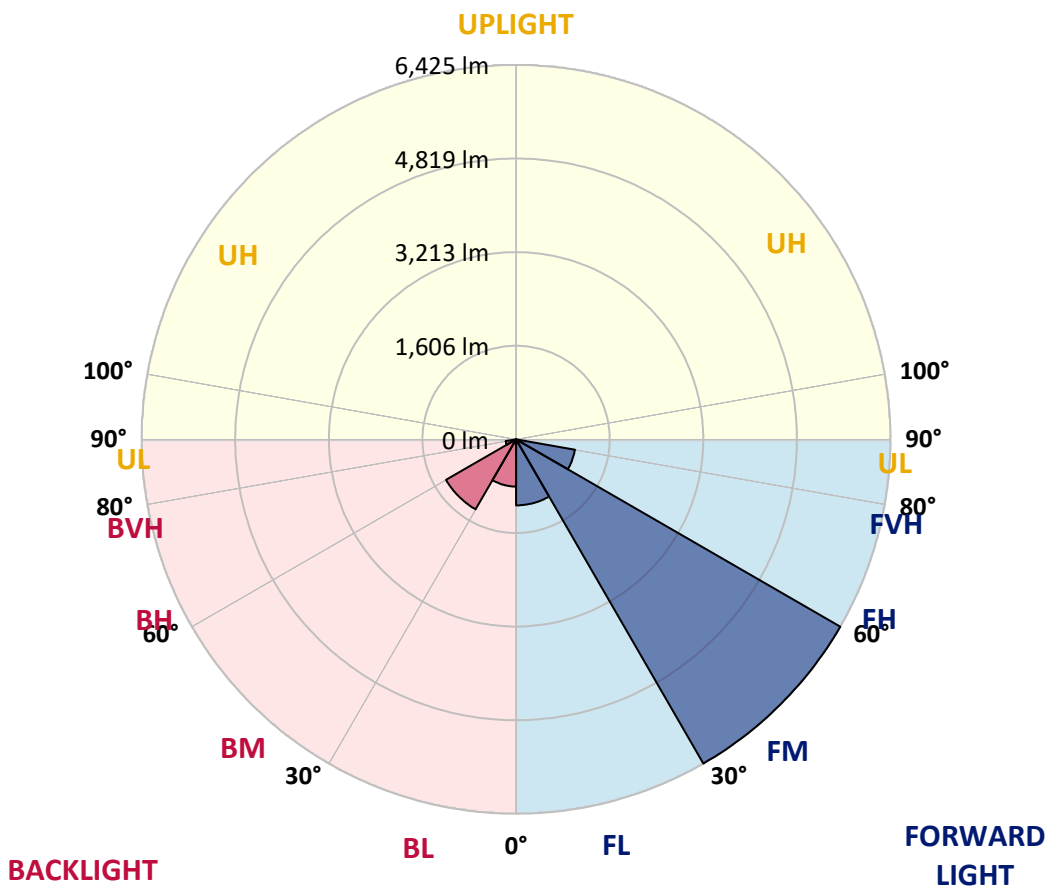
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.1	10.3			
FM (30°-60°)	6425.0	58.6			
FH (60°-80°)	1026.0	9.4			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	809.7	7.4	B2/1000		
BM (30°-60°)	1387.5	12.7	B2/2500		
BH (60°-80°)	180.9	1.6	B1/500		G1/500
BVH (80°-90°)	0.7	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°	47°	55°	65°	75°	85°
0°	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5
2.5°	1854.5	1853.3	1852.0	1859.6	1857.1	1855.8	1858.4	1858.4	1858.4	1850.7	1835.5
5°	1899.1	1899.1	1897.8	1905.5	1899.1	1895.3	1896.5	1896.5	1891.5	1877.5	1858.4
7.5°	1969.1	1966.6	1964.0	1971.6	1965.3	1964.0	1966.6	1958.9	1950.0	1927.1	1900.4
10°	2069.7	2069.7	2065.8	2073.5	2068.4	2065.8	2065.8	2060.7	2044.2	2008.6	1969.1
12.5°	2208.4	2202.0	2193.1	2186.8	2184.2	2182.9	2184.2	2176.6	2158.8	2112.9	2058.2
15°	2359.9	2354.8	2340.8	2330.6	2316.6	2314.0	2321.7	2315.3	2297.5	2235.1	2157.5
17.5°	2550.8	2557.2	2521.5	2499.9	2459.1	2456.6	2459.1	2469.3	2456.6	2376.4	2263.1
20°	2713.7	2718.8	2692.1	2676.8	2639.9	2623.3	2628.4	2645.0	2631.0	2536.8	2379.0
22.5°	2888.1	2894.5	2866.5	2834.6	2818.1	2818.1	2837.2	2860.1	2841.0	2717.5	2511.3
25°	3096.8	3101.9	3079.0	3037.0	3007.7	3044.7	3072.7	3133.8	3101.9	2933.9	2667.9
27.5°	3336.1	3337.4	3304.3	3261.0	3245.8	3314.5	3342.5	3436.7	3424.0	3177.0	2833.4
30°	3592.0	3593.3	3585.6	3556.3	3542.3	3632.7	3670.9	3807.1	3798.2	3478.7	3058.7
32.5°	3858.0	3858.0	3872.0	3869.5	3886.0	4033.7	4094.8	4250.1	4241.1	3847.8	3338.7
35°	4125.3	4126.6	4150.8	4211.9	4280.6	4476.6	4556.8	4745.2	4724.8	4289.5	3696.4
37.5°	4429.5	4416.8	4449.9	4541.5	4694.3	4920.8	4997.2	5176.7	5153.8	4741.4	4163.5
40°	4796.1	4773.2	4773.2	4880.1	5053.2	5314.2	5379.1	5468.2	5390.5	5106.7	4621.7
42.5°	5200.9	5179.2	5151.2	5245.4	5390.5	5594.2	5647.6	5623.5	5559.8	5451.6	5143.6
45°	5610.7	5577.6	5596.7	5654.0	5738.0	5834.8	5855.1	5743.1	5713.8	5744.4	5575.1
47.5°	5922.6	5899.7	5946.8	6027.0	6095.7	6109.7	6095.7	5940.4	5937.9	6046.0	5874.2
50°	6027.0	6029.5	6159.3	6335.0	6445.7	6457.2	6438.1	6259.9	6235.7	6267.5	6035.9
52.5°	6037.1	6047.3	6237.0	6571.7	6873.4	7010.9	6995.6	6803.4	6566.6	6532.3	6280.3
55°	5791.5	5851.3	6116.1	6604.8	7246.3	7685.5	7736.4	7368.5	7017.2	6988.0	6805.9
57.5°	4629.4	4751.6	5071.0	5767.3	6830.1	7755.5	7887.9	7623.1	7283.3	7158.5	6664.7
60°	2767.2	2918.6	3225.4	4079.5	5198.3	6374.4	6602.3	6639.2	6482.6	6122.4	5113.0
62.5°	1187.6	1174.8	1552.9	2207.1	3091.8	4051.5	4154.6	4315.0	4451.2	4074.4	3103.2
65°	407.3	443.0	616.1	995.4	1547.8	1881.3	1972.9	2116.8	2310.2	1906.7	1136.7
67.5°	252.0	267.3	355.1	588.1	835.0	822.3	781.5	758.6	738.3	505.3	311.8
70°	183.3	196.0	249.5	404.8	561.3	394.6	342.4	277.5	308.0	283.8	221.5
72.5°	123.5	133.6	171.8	245.7	287.7	192.2	178.2	202.4	244.4	232.9	180.7
75°	73.8	80.2	98.0	119.6	117.1	99.3	100.6	142.6	187.1	174.4	128.6
77.5°	50.9	53.5	64.9	77.6	57.3	30.5	28.0	39.5	63.6	63.6	43.3
80°	12.7	16.5	16.5	10.2	8.9	7.6	7.6	11.5	17.8	12.7	6.4
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5	2.5
85°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.5	2.5
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°	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5
2.5°	1844.4	1829.1	1839.3	1836.7	1844.4	1846.9	1835.5	1832.9	1834.2	1818.9	1813.8
5°	1862.2	1844.4	1849.5	1844.4	1853.3	1860.9	1857.1	1862.2	1868.5	1857.1	1852.0
7.5°	1900.4	1882.5	1881.3	1873.6	1886.4	1891.5	1890.2	1904.2	1916.9	1909.3	1901.6
10°	1966.6	1942.4	1939.8	1933.5	1937.3	1941.1	1927.1	1929.6	1941.1	1932.2	1928.4
12.5°	2048.0	2018.7	2012.4	1997.1	1997.1	1978.0	1947.5	1941.1	1950.0	1943.6	1937.3
15°	2135.8	2096.4	2086.2	2059.5	2034.0	1998.4	1966.6	1958.9	1965.3	1957.6	1952.6
17.5°	2233.9	2189.3	2156.2	2109.1	2053.1	2011.1	1975.5	1958.9	1948.7	1933.5	1932.2
20°	2330.6	2272.0	2216.0	2140.9	2067.1	2003.5	1944.9	1901.6	1864.7	1841.8	1832.9
22.5°	2442.6	2356.0	2265.7	2160.0	2054.4	1957.6	1854.5	1780.7	1717.1	1695.4	1685.3
25°	2562.3	2450.2	2315.3	2177.8	2011.1	1855.8	1715.8	1606.3	1522.3	1494.3	1482.9
27.5°	2694.6	2540.6	2366.2	2174.0	1922.0	1710.7	1524.9	1388.7	1305.9	1280.5	1289.4
30°	2862.6	2657.7	2429.9	2134.6	1788.4	1507.1	1289.4	1174.8	1112.5	1088.3	1089.6
32.5°	3086.7	2825.7	2522.8	2050.6	1616.5	1275.4	1084.5	1000.5	958.5	926.6	924.1
35°	3407.4	3081.6	2609.3	1915.6	1407.8	1069.2	930.5	864.3	805.7	768.8	775.2
37.5°	3791.8	3403.6	2656.4	1733.6	1173.6	908.8	814.6	747.2	681.0	626.2	632.6
40°	4247.5	3824.9	2652.6	1494.3	959.7	799.4	717.9	639.0	556.2	506.6	511.7
42.5°	4755.4	4223.3	2569.9	1241.0	795.5	710.3	625.0	525.7	445.5	414.9	416.2
45°	5195.8	4546.6	2424.8	978.8	669.5	623.7	528.2	426.4	390.8	369.1	367.9
47.5°	5521.6	4783.4	2217.3	770.1	567.7	544.8	434.0	381.9	353.9	336.0	333.5
50°	5703.6	4866.1	1988.2	603.3	479.9	462.0	388.2	346.2	327.1	315.7	313.1
52.5°	5948.0	4965.4	1824.0	476.0	402.2	378.0	357.7	322.0	309.3	300.4	296.6
55°	6335.0	5157.6	1681.4	378.0	334.8	329.7	337.3	308.0	300.4	286.4	281.3
57.5°	5970.9	4633.2	1305.9	292.8	282.6	301.7	325.9	294.0	274.9	262.2	257.1
60°	4201.7	3080.3	656.8	235.5	252.0	282.6	306.8	266.0	246.9	249.5	246.9
62.5°	2316.6	1541.4	295.3	197.3	218.9	249.5	262.2	230.4	217.7	239.3	243.1
65°	757.3	524.4	170.6	152.7	173.1	203.7	226.6	218.9	216.4	241.8	249.5
67.5°	232.9	173.1	115.8	109.5	119.6	150.2	190.9	236.8	254.6	262.2	266.0
70°	174.4	136.2	99.3	92.9	98.0	114.6	161.7	197.3	185.8	187.1	184.6
72.5°	140.0	108.2	85.3	81.5	81.5	78.9	85.3	106.9	120.9	127.3	127.3
75°	98.0	76.4	64.9	59.8	47.1	38.2	34.4	34.4	30.5	29.3	28.0
77.5°	33.1	28.0	25.5	20.4	14.0	11.5	10.2	8.9	6.4	3.8	2.5
80°	5.1	3.8	2.5	2.5	2.5	1.3	1.3	1.3	0.0	0.0	0.0
82.5°	2.5	2.5	2.5	2.5	2.5	1.3	1.3	0.0	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.3	1.3	1.3	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)