

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: P636021

Luminaire Tested: GWS-SA3E-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636021
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-SA3E-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10787.8 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

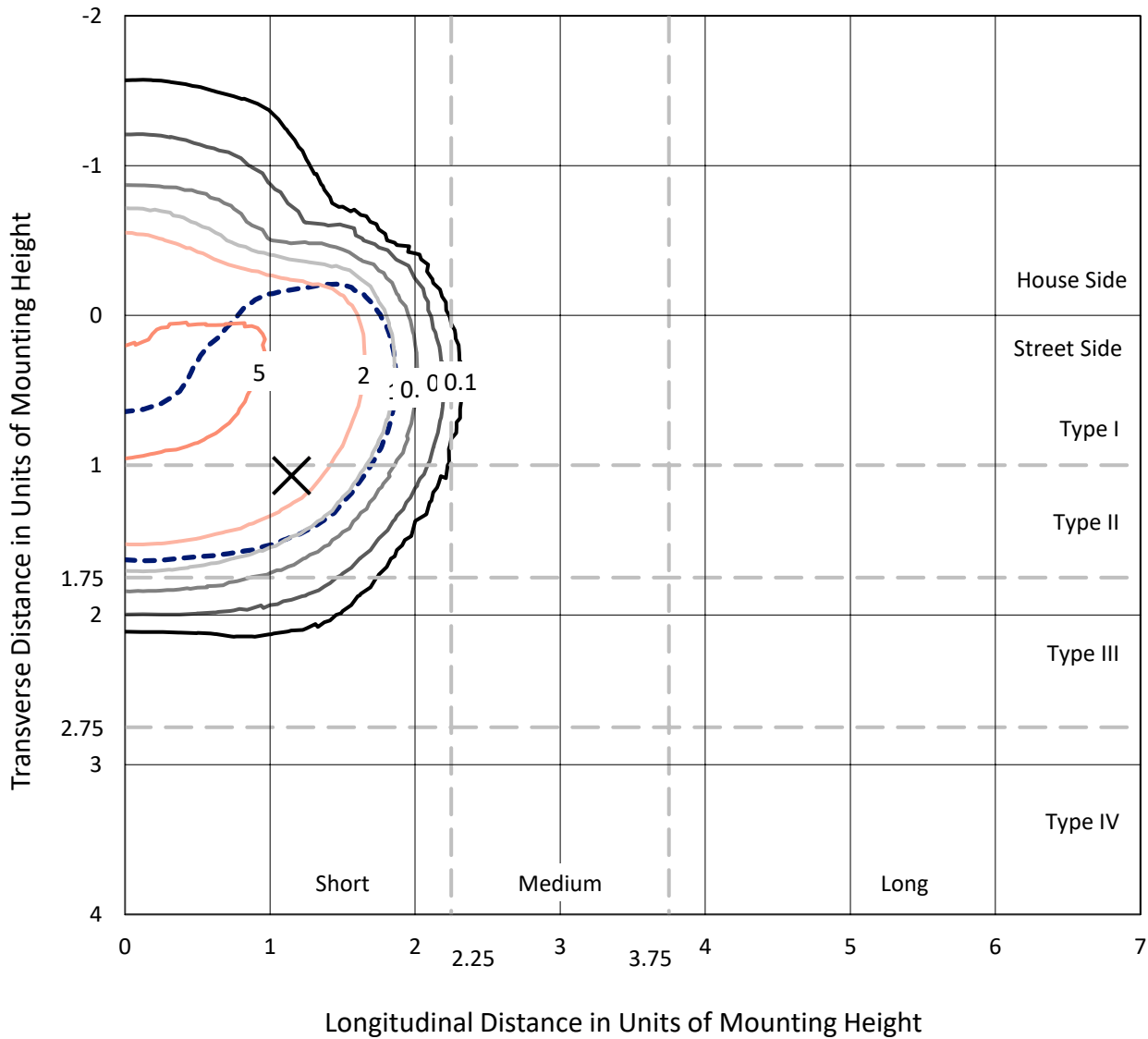
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

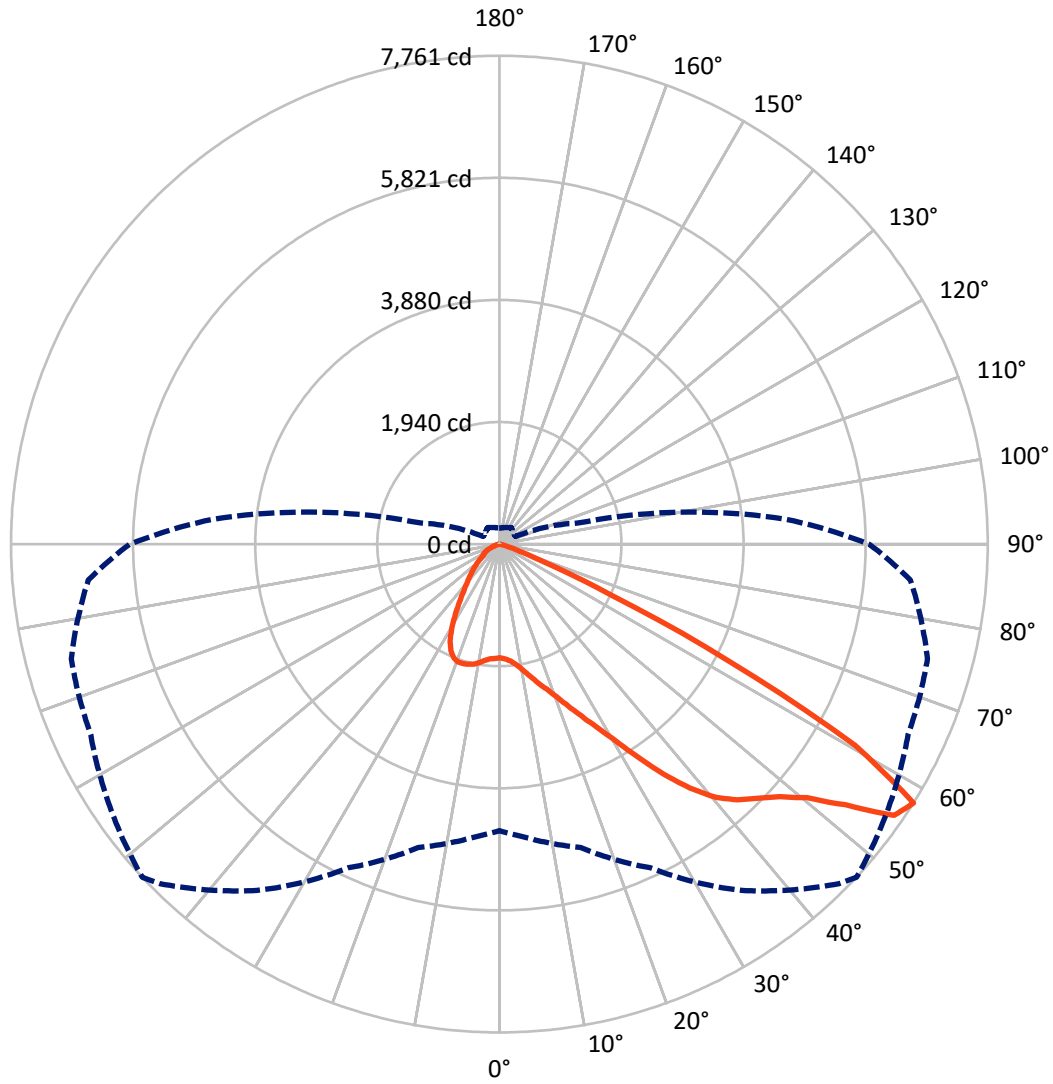
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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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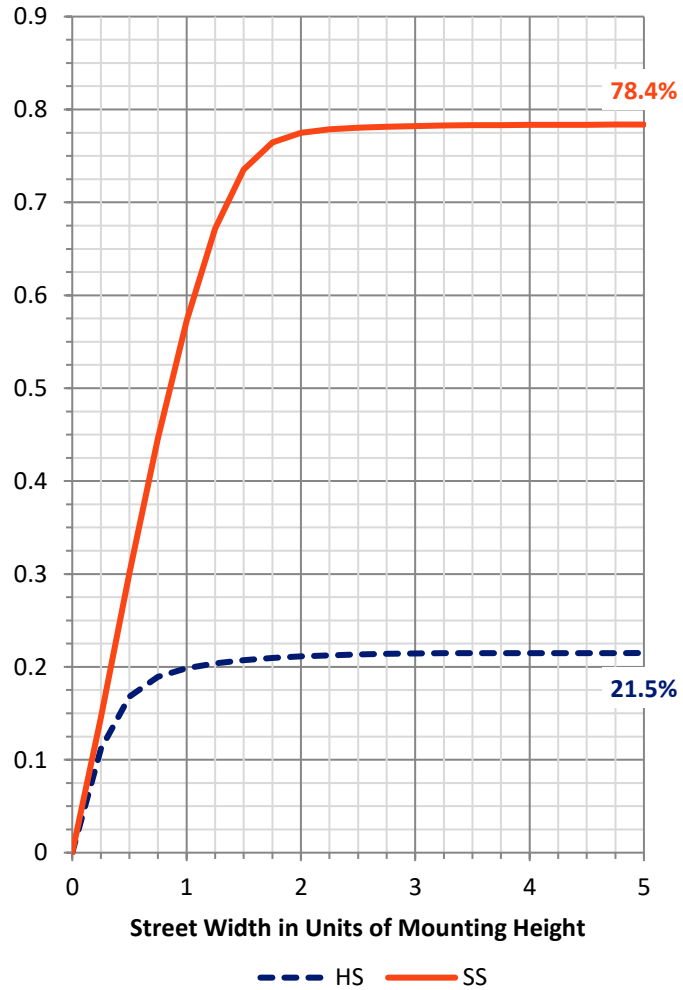
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2340.4	0.0	2340.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8447.4	0.0	8447.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	10787.8	0.0	10787.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	1.7
10°-20°	606.2	5.6
20°-30°	1125.6	10.4
30°-40°	1801.9	16.7
40°-50°	2634.0	24.4
50°-60°	3250.8	30.1
60°-70°	1086.2	10.1
70°-80°	101.2	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°	10787.8	100.0
0°-180°	10787.8	100.0

Coefficient of Utilization



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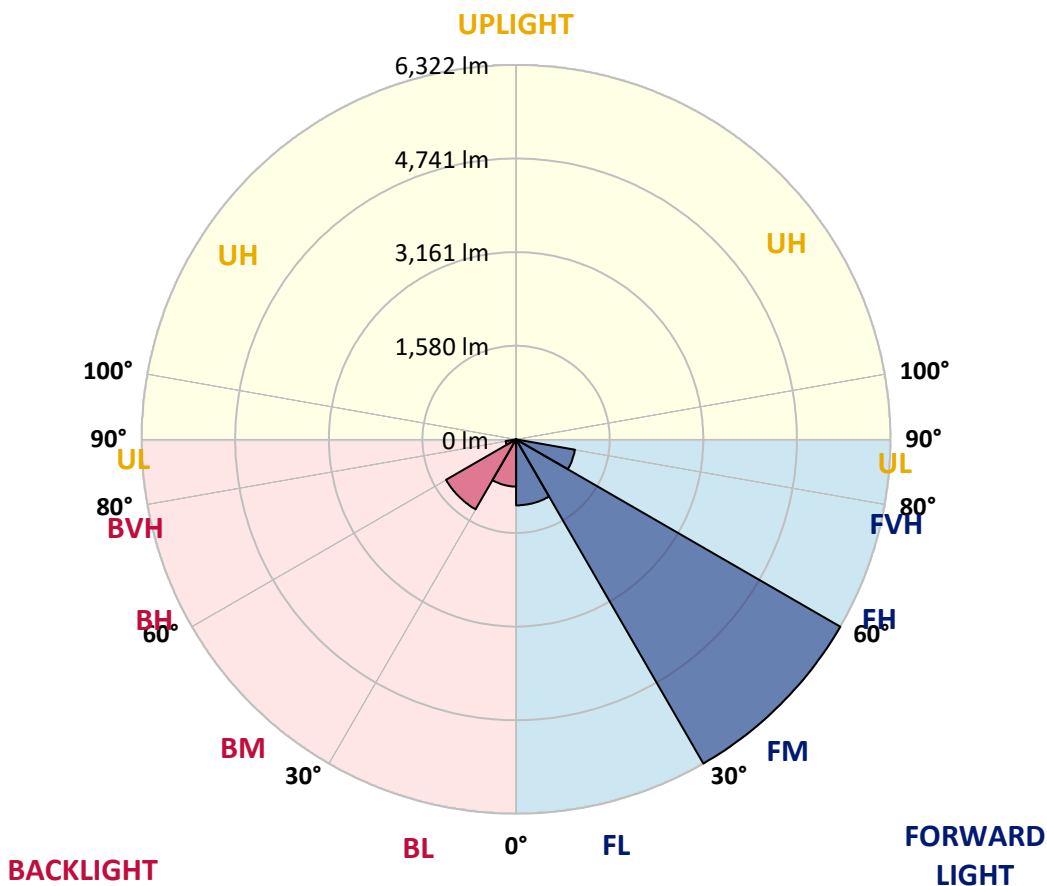
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.9	10.3			
FM (30°-60°)	6321.6	58.6			
FH (60°-80°)	1009.5	9.4			G1/1800
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	796.6	7.4	B2/1000		
BM (30°-60°)	1365.2	12.7	B2/2500		
BH (60°-80°)	177.9	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°	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	1824.7	1823.4	1822.2	1829.7	1827.2	1825.9	1828.4	1828.4	1828.4	1820.9	1805.9
5°	1868.5	1868.5	1867.3	1874.8	1868.5	1864.7	1866.0	1866.0	1861.0	1847.2	1828.4
7.5°	1937.4	1934.9	1932.4	1939.9	1933.6	1932.4	1934.9	1927.4	1918.6	1896.1	1869.8
10°	2036.3	2036.3	2032.6	2040.1	2035.1	2032.6	2032.6	2027.6	2011.3	1976.2	1937.4
12.5°	2172.8	2166.6	2157.8	2151.5	2149.0	2147.8	2149.0	2141.5	2124.0	2078.9	2025.1
15°	2321.9	2316.8	2303.1	2293.1	2279.3	2276.8	2284.3	2278.0	2260.5	2199.1	2122.7
17.5°	2509.7	2516.0	2480.9	2459.6	2419.5	2417.0	2419.5	2429.6	2417.0	2338.1	2226.7
20°	2670.0	2675.0	2648.7	2633.7	2597.4	2581.1	2586.1	2602.4	2588.6	2495.9	2340.6
22.5°	2841.6	2847.8	2820.3	2789.0	2772.7	2772.7	2791.5	2814.0	2795.2	2673.8	2470.9
25°	3047.0	3052.0	3029.4	2988.1	2959.3	2995.6	3023.2	3083.3	3052.0	2886.7	2624.9
27.5°	3282.4	3283.7	3251.1	3208.5	3193.5	3261.1	3288.7	3381.3	3368.8	3125.9	2787.7
30°	3534.1	3535.4	3527.9	3499.1	3485.3	3574.2	3611.8	3745.8	3737.0	3422.7	3009.4
32.5°	3795.9	3795.9	3809.6	3807.1	3823.4	3968.7	4028.8	4181.6	4172.8	3785.9	3284.9
35°	4058.9	4060.1	4083.9	4144.0	4211.7	4404.5	4483.4	4668.8	4648.7	4220.4	3636.8
37.5°	4358.2	4345.7	4378.2	4468.4	4618.7	4841.6	4916.7	5093.3	5070.8	4665.0	4096.4
40°	4718.9	4696.3	4696.3	4801.5	4971.8	5228.6	5292.4	5380.1	5303.7	5024.4	4547.3
42.5°	5117.1	5095.8	5068.3	5160.9	5303.7	5504.1	5556.7	5532.9	5470.3	5363.8	5060.7
45°	5520.4	5487.8	5506.6	5562.9	5645.6	5740.8	5760.8	5650.6	5621.8	5651.9	5485.3
47.5°	5827.2	5804.6	5851.0	5929.9	5997.5	6011.3	5997.5	5844.7	5842.2	5948.7	5779.6
50°	5929.9	5932.4	6060.1	6232.9	6341.9	6353.2	6334.4	6159.1	6135.3	6166.6	5938.6
52.5°	5939.9	5949.9	6136.5	6465.9	6762.7	6897.9	6882.9	6693.8	6460.9	6427.1	6179.1
55°	5698.2	5757.1	6017.5	6498.4	7129.6	7561.7	7611.8	7249.9	6904.2	6875.4	6696.3
57.5°	4554.8	4675.0	4989.4	5674.4	6720.1	7630.6	7760.8	7500.3	7165.9	7043.2	6557.3
60°	2722.6	2871.6	3173.5	4013.8	5114.6	6271.8	6495.9	6532.3	6378.2	6023.8	5030.7
62.5°	1168.4	1155.9	1527.9	2171.6	3042.0	3986.2	4087.7	4245.5	4379.5	4008.8	3053.2
65°	400.8	435.8	606.1	979.3	1522.9	1851.0	1941.1	2082.7	2273.0	1876.0	1118.3
67.5°	248.0	263.0	349.4	578.6	821.5	809.0	768.9	746.4	726.4	497.2	306.8
70°	180.3	192.9	245.5	398.2	552.3	388.2	336.9	273.0	303.1	279.3	217.9
72.5°	121.5	131.5	169.1	241.7	283.0	189.1	175.3	199.1	240.5	229.2	177.8
75°	72.6	78.9	96.4	117.7	115.2	97.7	98.9	140.3	184.1	171.6	126.5
77.5°	50.1	52.6	63.9	76.4	56.4	30.1	27.6	38.8	62.6	62.6	42.6
80°	12.5	16.3	16.3	10.0	8.8	7.5	7.5	11.3	17.5	12.5	6.3
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°	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	1814.7	1799.6	1809.6	1807.1	1814.7	1817.2	1805.9	1803.4	1804.6	1789.6	1784.6
5°	1832.2	1814.7	1819.7	1814.7	1823.4	1830.9	1827.2	1832.2	1838.5	1827.2	1822.2
7.5°	1869.8	1852.2	1851.0	1843.5	1856.0	1861.0	1859.7	1873.5	1886.0	1878.5	1871.0
10°	1934.9	1911.1	1908.6	1902.3	1906.1	1909.8	1896.1	1898.6	1909.8	1901.1	1897.3
12.5°	2015.0	1986.2	1980.0	1964.9	1964.9	1946.2	1916.1	1909.8	1918.6	1912.3	1906.1
15°	2101.4	2062.6	2052.6	2026.3	2001.3	1966.2	1934.9	1927.4	1933.6	1926.1	1921.1
17.5°	2197.9	2154.0	2121.5	2075.1	2020.0	1978.7	1943.6	1927.4	1917.3	1902.3	1901.1
20°	2293.1	2235.4	2180.3	2106.5	2033.8	1971.2	1913.6	1871.0	1834.7	1812.2	1803.4
22.5°	2403.3	2318.1	2229.2	2125.2	2021.3	1926.1	1824.7	1752.0	1689.4	1668.1	1658.1
25°	2521.0	2410.8	2278.0	2142.8	1978.7	1825.9	1688.2	1580.5	1497.8	1470.3	1459.0
27.5°	2651.2	2499.7	2328.1	2139.0	1891.0	1683.2	1500.3	1366.3	1284.9	1259.9	1268.6
30°	2816.5	2614.9	2390.7	2100.2	1759.6	1482.8	1268.6	1155.9	1094.6	1070.8	1072.0
32.5°	3036.9	2780.2	2482.2	2017.5	1590.5	1254.9	1067.0	984.3	943.0	911.7	909.2
35°	3352.5	3031.9	2567.3	1884.8	1385.1	1052.0	915.5	850.3	792.7	756.4	762.7
37.5°	3730.8	3348.8	2613.7	1705.7	1154.7	894.2	801.5	735.1	670.0	616.2	622.4
40°	4179.1	3763.3	2609.9	1470.3	944.3	786.5	706.3	628.7	547.3	498.4	503.4
42.5°	4678.8	4155.3	2528.5	1221.0	782.7	698.8	614.9	517.2	438.3	408.3	409.5
45°	5112.1	4473.4	2385.7	963.1	658.7	613.7	519.7	419.5	384.5	363.2	361.9
47.5°	5432.7	4706.3	2181.6	757.7	558.5	536.0	427.1	375.7	348.2	330.6	328.1
50°	5611.8	4787.7	1956.2	593.6	472.1	454.6	382.0	340.6	321.9	310.6	308.1
52.5°	5852.2	4885.4	1794.6	468.4	395.7	371.9	351.9	316.8	304.3	295.6	291.8
55°	6232.9	5074.5	1654.4	371.9	329.4	324.4	331.9	303.1	295.6	281.8	276.8
57.5°	5874.8	4558.6	1284.9	288.0	278.0	296.8	320.6	289.3	270.5	258.0	253.0
60°	4134.0	3030.7	646.2	231.7	248.0	278.0	301.8	261.7	243.0	245.5	243.0
62.5°	2279.3	1516.6	290.5	194.1	215.4	245.5	258.0	226.7	214.2	235.4	239.2
65°	745.1	516.0	167.8	150.3	170.3	200.4	222.9	215.4	212.9	237.9	245.5
67.5°	229.2	170.3	114.0	107.7	117.7	147.8	187.9	232.9	250.5	258.0	261.7
70°	171.6	134.0	97.7	91.4	96.4	112.7	159.0	194.1	182.8	184.1	181.6
72.5°	137.8	106.4	83.9	80.2	80.2	77.6	83.9	105.2	119.0	125.2	125.2
75°	96.4	75.1	63.9	58.9	46.3	37.6	33.8	33.8	30.1	28.8	27.6
77.5°	32.6	27.6	25.0	20.0	13.8	11.3	10.0	8.8	6.3	3.8	2.5
80°	5.0	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)