

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: P637506

Luminaire Tested: GWS-SA4C-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637506
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-SA4C-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9522.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

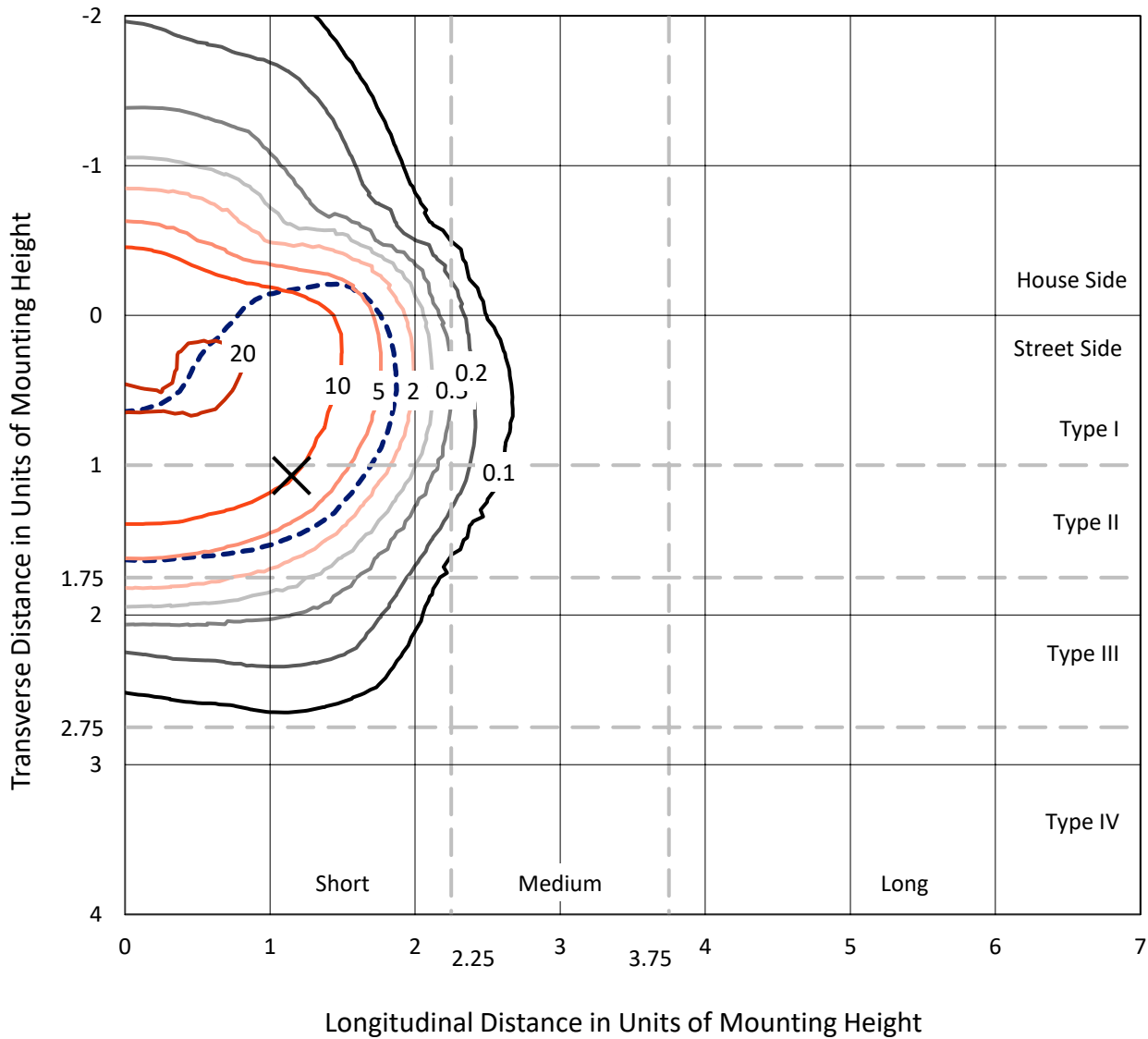
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

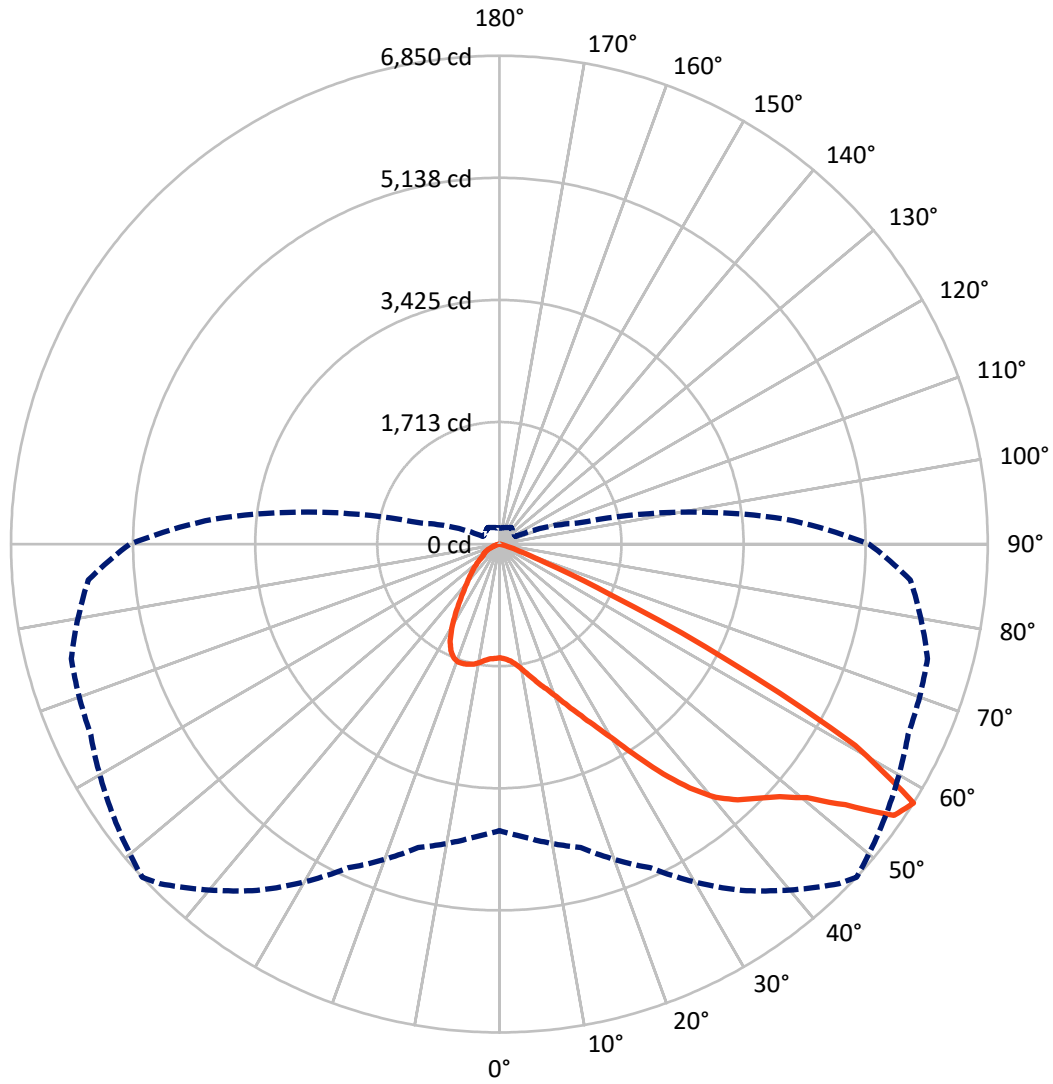
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.6 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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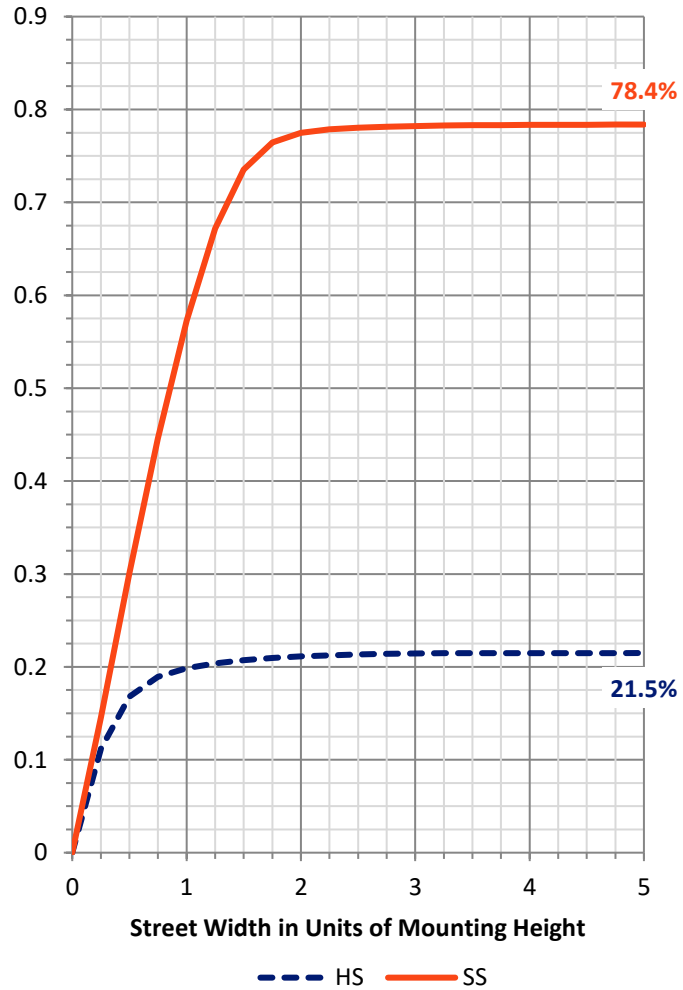
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.8	0.0	2065.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7456.4	0.0	7456.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	9522.3	0.0	9522.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	1.7
10°-20°	535.1	5.6
20°-30°	993.6	10.4
30°-40°	1590.5	16.7
40°-50°	2325.0	24.4
50°-60°	2869.5	30.1
60°-70°	958.8	10.1
70°-80°	89.3	0.9
80°-90°	1.8	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°	9522.3	100.0
0°-180°	9522.3	100.0

Coefficient of Utilization



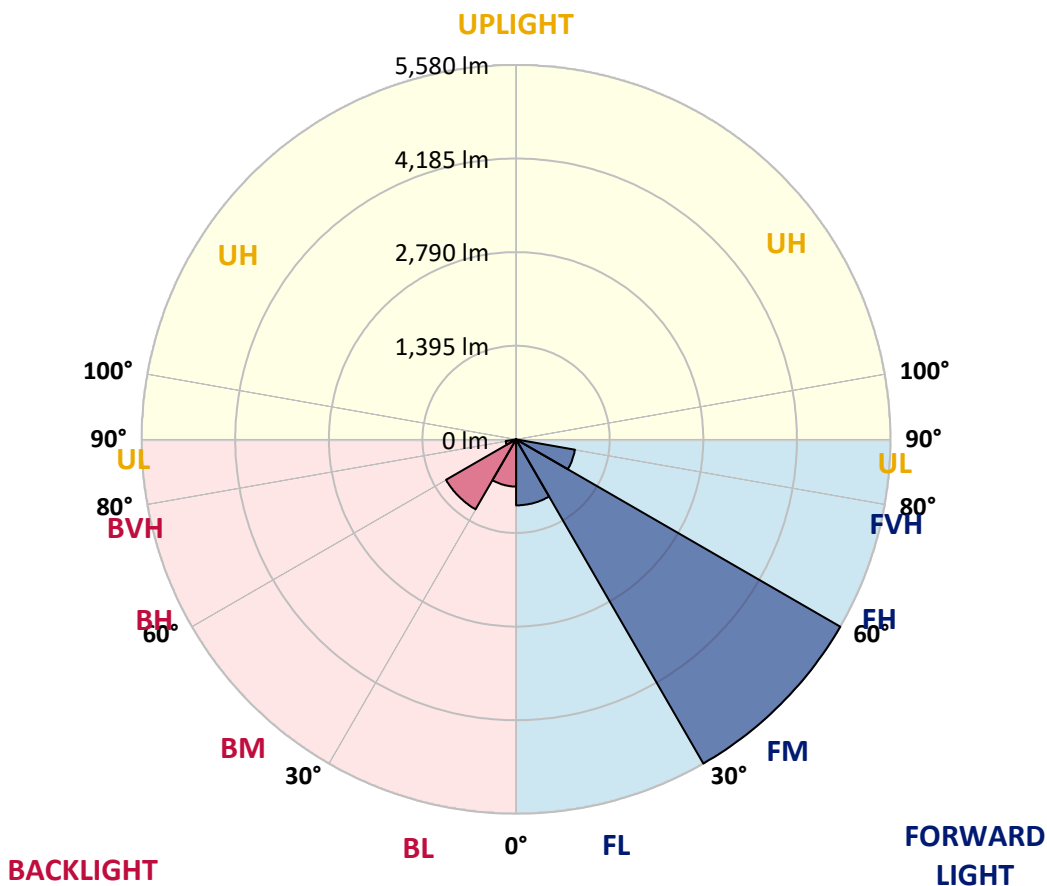
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.1	10.3			
FM (30°-60°)	5580.0	58.6			
FH (60°-80°)	891.1	9.4			G1/1800
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	703.2	7.4	B2/1000		
BM (30°-60°)	1205.0	12.7	B2/2500		
BH (60°-80°)	157.1	1.6	B1/500		G1/500
BVH (80°-90°)	0.6	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°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0
2.5°	1610.6	1609.5	1608.4	1615.0	1612.8	1611.7	1613.9	1613.9	1613.9	1607.3	1594.0
5°	1649.3	1649.3	1648.2	1654.8	1649.3	1646.0	1647.1	1647.1	1642.7	1630.5	1613.9
7.5°	1710.1	1707.9	1705.7	1712.3	1706.8	1705.7	1707.9	1701.3	1693.5	1673.6	1650.4
10°	1797.4	1797.4	1794.1	1800.8	1796.3	1794.1	1794.1	1789.7	1775.3	1744.4	1710.1
12.5°	1917.9	1912.4	1904.7	1899.1	1896.9	1895.8	1896.9	1890.3	1874.8	1835.0	1787.5
15°	2049.5	2045.1	2032.9	2024.1	2011.9	2009.7	2016.3	2010.8	1995.3	1941.2	1873.7
17.5°	2215.3	2220.8	2189.9	2171.1	2135.7	2133.5	2135.7	2144.6	2133.5	2063.9	1965.5
20°	2356.8	2361.2	2338.0	2324.7	2292.7	2278.3	2282.7	2297.1	2284.9	2203.1	2066.1
22.5°	2508.2	2513.8	2489.4	2461.8	2447.4	2447.4	2464.0	2483.9	2467.3	2360.1	2181.0
25°	2689.5	2694.0	2674.1	2637.6	2612.2	2644.2	2668.5	2721.6	2694.0	2548.0	2317.0
27.5°	2897.4	2898.5	2869.7	2832.1	2818.9	2878.6	2902.9	2984.7	2973.6	2759.2	2460.7
30°	3119.5	3120.7	3114.0	3088.6	3076.4	3154.9	3188.1	3306.4	3298.6	3021.2	2656.4
32.5°	3350.6	3350.6	3362.7	3360.5	3374.9	3503.1	3556.2	3691.1	3683.3	3341.7	2899.6
35°	3582.7	3583.8	3604.8	3657.9	3717.6	3887.8	3957.5	4121.1	4103.4	3725.3	3210.2
37.5°	3846.9	3835.9	3864.6	3944.2	4076.9	4273.6	4340.0	4495.8	4475.9	4117.8	3615.9
40°	4165.3	4145.4	4145.4	4238.3	4388.6	4615.2	4671.6	4749.0	4681.5	4435.0	4013.8
42.5°	4516.8	4498.0	4473.7	4555.5	4681.5	4858.4	4904.8	4883.8	4828.6	4734.6	4467.1
45°	4872.8	4844.0	4860.6	4910.4	4983.3	5067.3	5085.0	4987.7	4962.3	4988.8	4841.8
47.5°	5143.6	5123.7	5164.6	5234.3	5293.9	5306.1	5293.9	5159.1	5156.9	5250.8	5101.6
50°	5234.3	5236.5	5349.2	5501.8	5597.9	5607.9	5591.3	5436.5	5415.5	5443.2	5242.0
52.5°	5243.1	5251.9	5416.7	5707.4	5969.4	6088.8	6075.5	5908.6	5703.0	5673.1	5454.2
55°	5029.7	5081.7	5311.6	5736.1	6293.3	6674.6	6718.9	6399.4	6094.3	6068.9	5910.8
57.5°	4020.5	4126.6	4404.1	5008.7	5931.8	6735.4	6850.4	6620.5	6325.3	6217.0	5788.1
60°	2403.2	2534.8	2801.2	3542.9	4514.6	5536.0	5733.9	5766.0	5630.0	5317.2	4440.5
62.5°	1031.4	1020.3	1348.6	1916.8	2685.1	3518.6	3608.2	3747.4	3865.7	3538.5	2695.1
65°	353.7	384.7	535.0	864.5	1344.2	1633.8	1713.4	1838.3	2006.4	1655.9	987.2
67.5°	218.9	232.1	308.4	510.7	725.2	714.1	678.7	658.8	641.2	438.9	270.8
70°	159.2	170.2	216.7	351.5	487.5	342.7	297.4	241.0	267.5	246.5	192.3
72.5°	107.2	116.1	149.2	213.3	249.8	166.9	154.8	175.8	212.2	202.3	157.0
75°	64.1	69.6	85.1	103.9	101.7	86.2	87.3	123.8	162.5	151.4	111.6
77.5°	44.2	46.4	56.4	67.4	49.7	26.5	24.3	34.3	55.3	55.3	37.6
80°	11.1	14.4	14.4	8.8	7.7	6.6	6.6	9.9	15.5	11.1	5.5
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
85°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
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°	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0	1594.0
2.5°	1601.8	1588.5	1597.4	1595.1	1601.8	1604.0	1594.0	1591.8	1592.9	1579.7	1575.3
5°	1617.3	1601.8	1606.2	1601.8	1609.5	1616.2	1612.8	1617.3	1622.8	1612.8	1608.4
7.5°	1650.4	1634.9	1633.8	1627.2	1638.3	1642.7	1641.6	1653.7	1664.8	1658.2	1651.5
10°	1707.9	1686.9	1684.7	1679.2	1682.5	1685.8	1673.6	1675.8	1685.8	1678.1	1674.7
12.5°	1778.7	1753.2	1747.7	1734.4	1734.4	1717.9	1691.3	1685.8	1693.5	1688.0	1682.5
15°	1854.9	1820.7	1811.8	1788.6	1766.5	1735.5	1707.9	1701.3	1706.8	1700.2	1695.7
17.5°	1940.0	1901.4	1872.6	1831.7	1783.1	1746.6	1715.6	1701.3	1692.4	1679.2	1678.1
20°	2024.1	1973.2	1924.6	1859.3	1795.2	1740.0	1689.1	1651.5	1619.5	1599.6	1591.8
22.5°	2121.3	2046.2	1967.7	1875.9	1784.2	1700.2	1610.6	1546.5	1491.2	1472.4	1463.6
25°	2225.2	2128.0	2010.8	1891.4	1746.6	1611.7	1490.1	1395.1	1322.1	1297.8	1287.8
27.5°	2340.2	2206.5	2055.0	1888.1	1669.2	1485.7	1324.3	1206.0	1134.2	1112.1	1119.8
30°	2486.1	2308.2	2110.3	1853.8	1553.1	1308.8	1119.8	1020.3	966.2	945.2	946.3
32.5°	2680.7	2454.1	2191.0	1780.9	1403.9	1107.7	941.8	868.9	832.4	804.8	802.5
35°	2959.3	2676.3	2266.2	1663.7	1222.6	928.6	808.1	750.6	699.7	667.7	673.2
37.5°	3293.1	2955.9	2307.1	1505.6	1019.2	789.3	707.5	648.9	591.4	543.9	549.4
40°	3688.9	3321.8	2303.7	1297.8	833.5	694.2	623.5	554.9	483.1	440.0	444.4
42.5°	4129.9	3667.8	2231.9	1077.8	690.9	616.8	542.8	456.5	386.9	360.4	361.5
45°	4512.4	3948.6	2105.9	850.1	581.5	541.7	458.8	370.3	339.4	320.6	319.5
47.5°	4795.4	4154.2	1925.7	668.8	493.0	473.1	377.0	331.6	307.3	291.8	289.6
50°	4953.5	4226.1	1726.7	524.0	416.8	401.3	337.2	300.7	284.1	274.1	271.9
52.5°	5165.7	4312.3	1584.1	413.4	349.3	328.3	310.6	279.7	268.6	260.9	257.6
55°	5501.8	4479.2	1460.3	328.3	290.7	286.3	292.9	267.5	260.9	248.7	244.3
57.5°	5185.6	4023.8	1134.2	254.3	245.4	262.0	283.0	255.4	238.8	227.7	223.3
60°	3649.1	2675.2	570.4	204.5	218.9	245.4	266.4	231.0	214.5	216.7	214.5
62.5°	2011.9	1338.7	256.5	171.3	190.1	216.7	227.7	200.1	189.0	207.8	211.1
65°	657.7	455.4	148.1	132.7	150.3	176.9	196.8	190.1	187.9	210.0	216.7
67.5°	202.3	150.3	100.6	95.1	103.9	130.4	165.8	205.6	221.1	227.7	231.0
70°	151.4	118.3	86.2	80.7	85.1	99.5	140.4	171.3	161.4	162.5	160.3
72.5°	121.6	94.0	74.1	70.7	70.7	68.5	74.1	92.9	105.0	110.5	110.5
75°	85.1	66.3	56.4	52.0	40.9	33.2	29.8	29.8	26.5	25.4	24.3
77.5°	28.7	24.3	22.1	17.7	12.2	9.9	8.8	7.7	5.5	3.3	2.2
80°	4.4	3.3	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
82.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0
85°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	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)