

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: P633766

Luminaire Tested: GWS-SA2F-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633766
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-SA2F-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9880.4 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

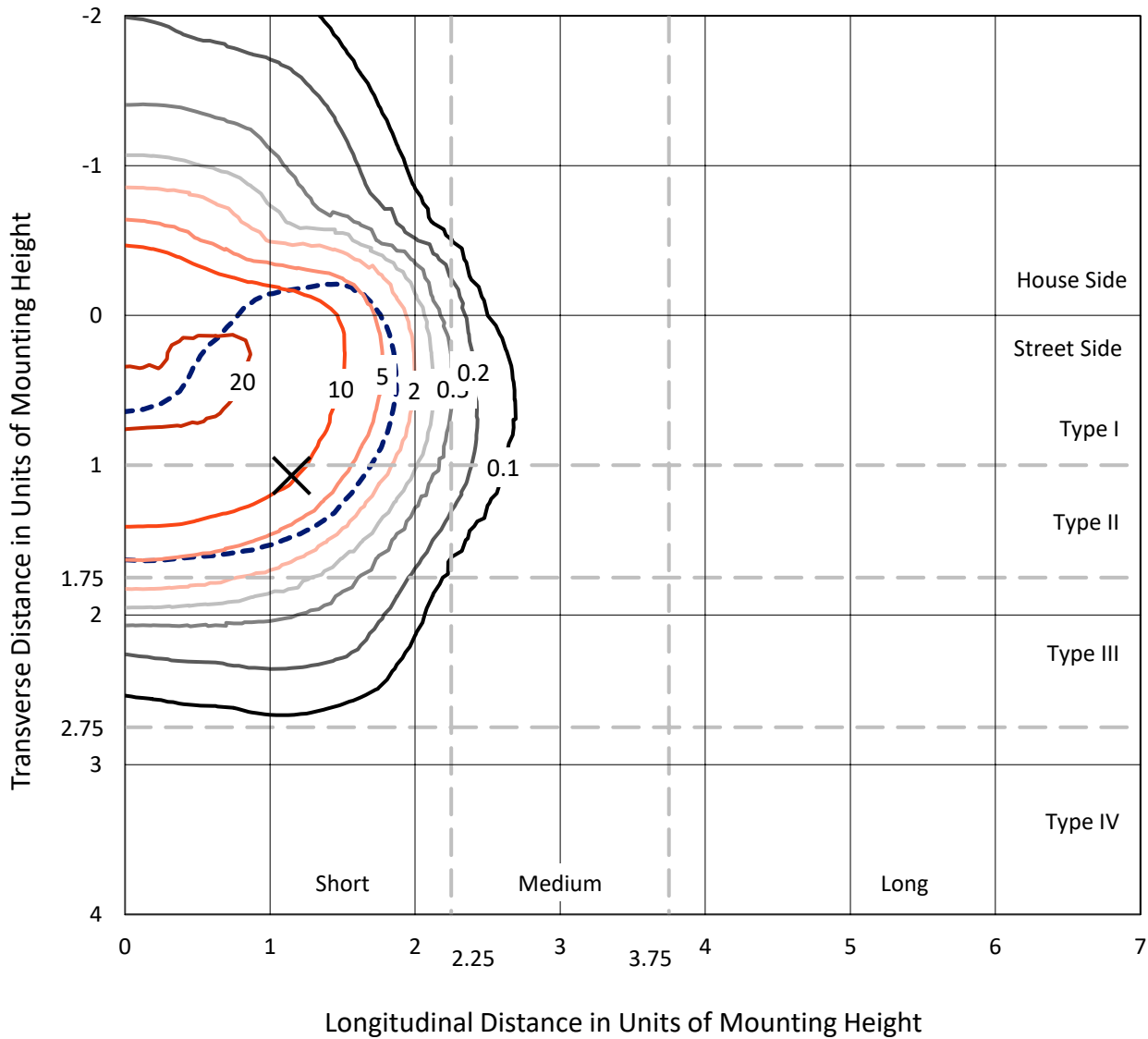
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

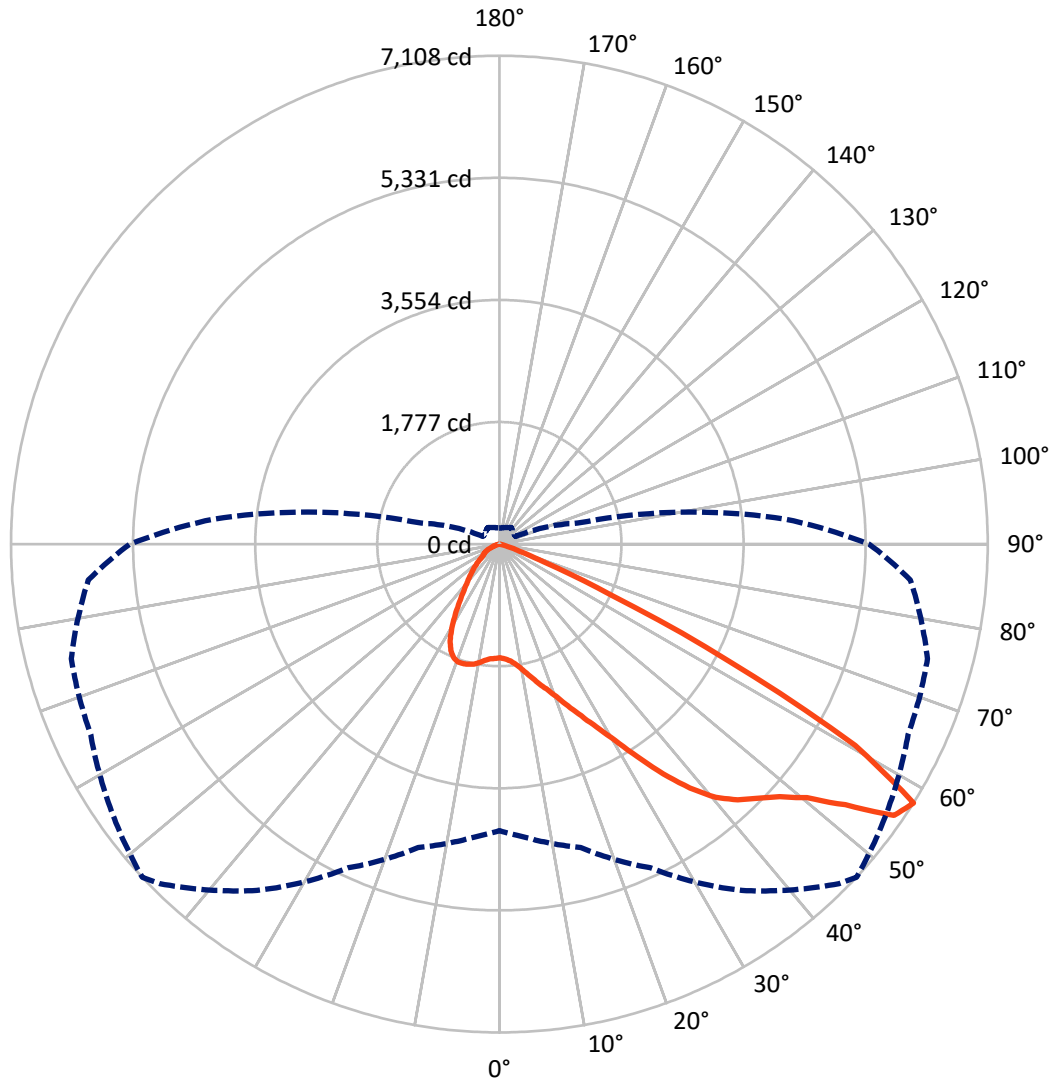
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 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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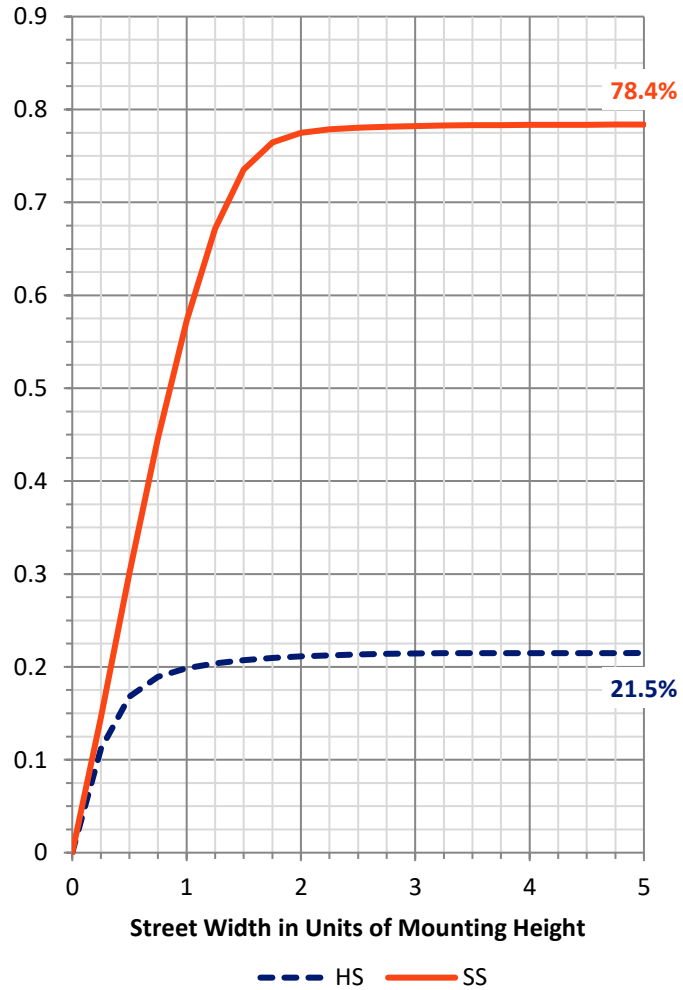
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2143.5	0.0	2143.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7736.8	0.0	7736.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	9880.4	0.0	9880.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.7
10°-20°	555.2	5.6
20°-30°	1030.9	10.4
30°-40°	1650.4	16.7
40°-50°	2412.4	24.4
50°-60°	2977.4	30.1
60°-70°	994.9	10.1
70°-80°	92.7	0.9
80°-90°	1.9	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°	9880.4	100.0
0°-180°	9880.4	100.0

Coefficient of Utilization



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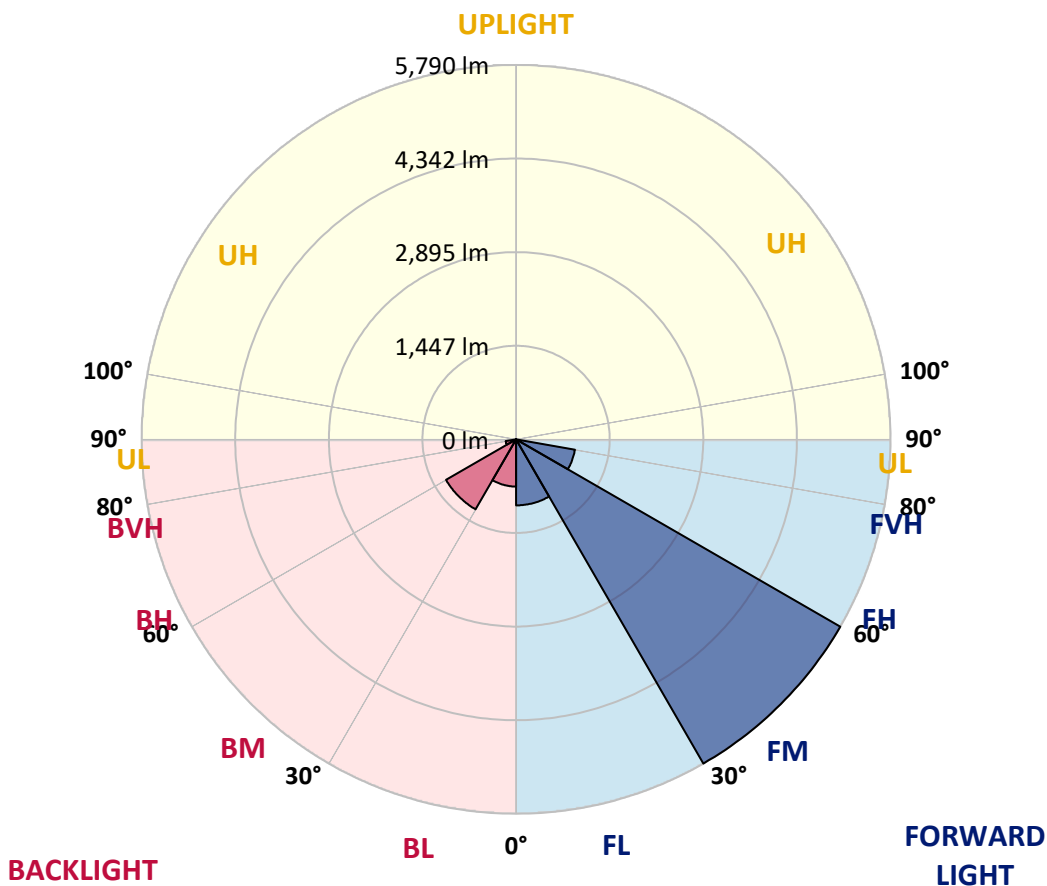
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.1	10.3			
FM (30°-60°)	5789.8	58.6			
FH (60°-80°)	924.6	9.4			G1/1800
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	729.6	7.4	B2/1000		
BM (30°-60°)	1250.3	12.7	B2/2500		
BH (60°-80°)	163.0	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°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1671.2	1670.0	1668.9	1675.8	1673.5	1672.3	1674.6	1674.6	1674.6	1667.8	1654.0
5°	1711.3	1711.3	1710.2	1717.1	1711.3	1707.9	1709.0	1709.0	1704.5	1691.8	1674.6
7.5°	1774.4	1772.1	1769.8	1776.7	1771.0	1769.8	1772.1	1765.2	1757.2	1736.6	1712.5
10°	1865.0	1865.0	1861.6	1868.5	1863.9	1861.6	1861.6	1857.0	1842.1	1810.0	1774.4
12.5°	1990.1	1984.3	1976.3	1970.6	1968.3	1967.1	1968.3	1961.4	1945.3	1904.0	1854.7
15°	2126.6	2122.0	2109.4	2100.2	2087.6	2085.3	2092.1	2086.4	2070.4	2014.2	1944.2
17.5°	2298.6	2304.3	2272.2	2252.7	2216.0	2213.7	2216.0	2225.2	2213.7	2141.5	2039.4
20°	2445.4	2450.0	2425.9	2412.2	2378.9	2364.0	2368.6	2383.5	2370.9	2286.0	2143.8
22.5°	2602.6	2608.3	2583.1	2554.4	2539.5	2539.5	2556.7	2577.3	2560.1	2448.9	2263.1
25°	2790.7	2795.3	2774.6	2736.8	2710.4	2743.6	2768.9	2823.9	2795.3	2643.9	2404.1
27.5°	3006.3	3007.5	2977.6	2938.6	2924.9	2986.8	3012.1	3096.9	3085.5	2862.9	2553.2
30°	3236.9	3238.0	3231.1	3204.7	3192.1	3273.6	3308.0	3430.7	3422.7	3134.8	2756.3
32.5°	3476.6	3476.6	3489.2	3486.9	3501.8	3634.9	3689.9	3829.9	3821.8	3467.4	3008.6
35°	3717.5	3718.6	3740.4	3795.5	3857.4	4034.0	4106.3	4276.1	4257.7	3865.4	3330.9
37.5°	3991.6	3980.1	4009.9	4092.5	4230.2	4434.3	4503.2	4664.9	4644.2	4272.6	3751.9
40°	4321.9	4301.3	4301.3	4397.6	4553.6	4788.8	4847.3	4927.6	4857.6	4601.8	4164.8
42.5°	4686.7	4667.2	4642.0	4726.8	4857.6	5041.1	5089.3	5067.5	5010.1	4912.6	4635.1
45°	5056.0	5026.2	5043.4	5095.0	5170.7	5257.9	5276.2	5175.3	5148.9	5176.5	5023.9
47.5°	5337.0	5316.4	5358.8	5431.1	5493.0	5505.7	5493.0	5353.1	5350.8	5448.3	5293.5
50°	5431.1	5433.4	5550.4	5708.7	5808.5	5818.8	5801.6	5641.0	5619.2	5647.9	5439.1
52.5°	5440.3	5449.4	5620.4	5922.0	6193.9	6317.7	6304.0	6130.8	5917.4	5886.5	5659.4
55°	5218.9	5272.8	5511.4	5951.8	6529.9	6925.7	6971.5	6640.0	6323.5	6297.1	6133.1
57.5°	4171.7	4281.8	4569.7	5197.1	6154.9	6988.7	7108.0	6869.4	6563.2	6450.8	6005.7
60°	2493.6	2630.1	2906.5	3676.2	4684.4	5744.2	5949.5	5982.8	5841.7	5517.1	4607.5
62.5°	1070.2	1058.7	1399.4	1988.9	2786.1	3650.9	3743.8	3888.4	4011.1	3671.6	2796.4
65°	367.0	399.2	555.2	897.0	1394.8	1695.3	1777.9	1907.5	2081.8	1718.2	1024.3
67.5°	227.1	240.9	320.0	529.9	752.4	741.0	704.3	683.6	665.3	455.4	281.0
70°	165.2	176.6	224.8	364.7	505.8	355.6	308.5	250.0	277.6	255.8	199.6
72.5°	111.3	120.4	154.8	221.4	259.2	173.2	160.6	182.4	220.2	209.9	162.9
75°	66.5	72.3	88.3	107.8	105.5	89.5	90.6	128.5	168.6	157.1	115.8
77.5°	45.9	48.2	58.5	70.0	51.6	27.5	25.2	35.6	57.4	57.4	39.0
80°	11.5	14.9	14.9	9.2	8.0	6.9	6.9	10.3	16.1	11.5	5.7
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3
85°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3
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°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1662.0	1648.3	1657.4	1655.1	1662.0	1664.3	1654.0	1651.7	1652.8	1639.1	1634.5
5°	1678.1	1662.0	1666.6	1662.0	1670.0	1676.9	1673.5	1678.1	1683.8	1673.5	1668.9
7.5°	1712.5	1696.4	1695.3	1688.4	1699.9	1704.5	1703.3	1715.9	1727.4	1720.5	1713.6
10°	1772.1	1750.3	1748.0	1742.3	1745.8	1749.2	1736.6	1738.9	1749.2	1741.2	1737.7
12.5°	1845.5	1819.2	1813.4	1799.7	1799.7	1782.5	1754.9	1749.2	1757.2	1751.5	1745.8
15°	1924.7	1889.1	1880.0	1855.9	1832.9	1800.8	1772.1	1765.2	1771.0	1764.1	1759.5
17.5°	2013.0	1972.9	1943.0	1900.6	1850.1	1812.3	1780.2	1765.2	1756.1	1742.3	1741.2
20°	2100.2	2047.4	1996.9	1929.3	1862.7	1805.4	1752.6	1713.6	1680.4	1659.7	1651.7
22.5°	2201.1	2123.1	2041.7	1946.5	1851.3	1764.1	1671.2	1604.7	1547.3	1527.8	1518.6
25°	2308.9	2208.0	2086.4	1962.5	1812.3	1672.3	1546.2	1447.5	1371.8	1346.6	1336.3
27.5°	2428.2	2289.4	2132.3	1959.1	1732.0	1541.6	1374.1	1251.4	1176.8	1153.9	1161.9
30°	2579.6	2395.0	2189.6	1923.5	1611.6	1358.1	1161.9	1058.7	1002.5	980.7	981.8
32.5°	2781.5	2546.4	2273.4	1847.8	1456.7	1149.3	977.3	901.6	863.7	835.0	832.7
35°	3070.5	2776.9	2351.4	1726.3	1268.6	963.5	838.5	778.8	726.1	692.8	698.5
37.5°	3416.9	3067.1	2393.8	1562.2	1057.5	819.0	734.1	673.3	613.7	564.3	570.1
40°	3827.6	3446.8	2390.4	1346.6	864.8	720.3	646.9	575.8	501.2	456.5	461.1
42.5°	4285.2	3805.8	2315.8	1118.3	716.9	640.0	563.2	473.7	401.5	373.9	375.1
45°	4682.1	4097.1	2185.1	882.1	603.3	562.0	476.0	384.2	352.1	332.6	331.5
47.5°	4975.7	4310.5	1998.1	693.9	511.6	490.9	391.1	344.1	318.9	302.8	300.5
50°	5139.8	4385.0	1791.6	543.7	432.4	416.4	349.8	312.0	294.8	284.5	282.2
52.5°	5360.0	4474.5	1643.7	429.0	362.5	340.7	322.3	290.2	278.7	270.7	267.3
55°	5708.7	4647.7	1515.2	340.7	301.7	297.1	304.0	277.6	270.7	258.1	253.5
57.5°	5380.6	4175.1	1176.8	263.8	254.6	271.8	293.6	265.0	247.8	236.3	231.7
60°	3786.3	2775.8	591.9	212.2	227.1	254.6	276.4	239.7	222.5	224.8	222.5
62.5°	2087.6	1389.0	266.1	177.8	197.3	224.8	236.3	207.6	196.1	215.6	219.1
65°	682.5	472.6	153.7	137.6	156.0	183.5	204.2	197.3	195.0	217.9	224.8
67.5°	209.9	156.0	104.4	98.6	107.8	135.3	172.1	213.3	229.4	236.3	239.7
70°	157.1	122.7	89.5	83.7	88.3	103.2	145.7	177.8	167.5	168.6	166.3
72.5°	126.2	97.5	76.8	73.4	73.4	71.1	76.8	96.3	109.0	114.7	114.7
75°	88.3	68.8	58.5	53.9	42.4	34.4	31.0	31.0	27.5	26.4	25.2
77.5°	29.8	25.2	22.9	18.4	12.6	10.3	9.2	8.0	5.7	3.4	2.3
80°	4.6	3.4	2.3	2.3	2.3	1.1	1.1	1.1	0.0	0.0	0.0
82.5°	2.3	2.3	2.3	2.3	2.3	1.1	1.1	0.0	0.0	0.0	0.0
85°	2.3	2.3	2.3	2.3	2.3	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	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)