

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: P640038

Luminaire Tested: GWS-SA5D-722-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16245.2 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

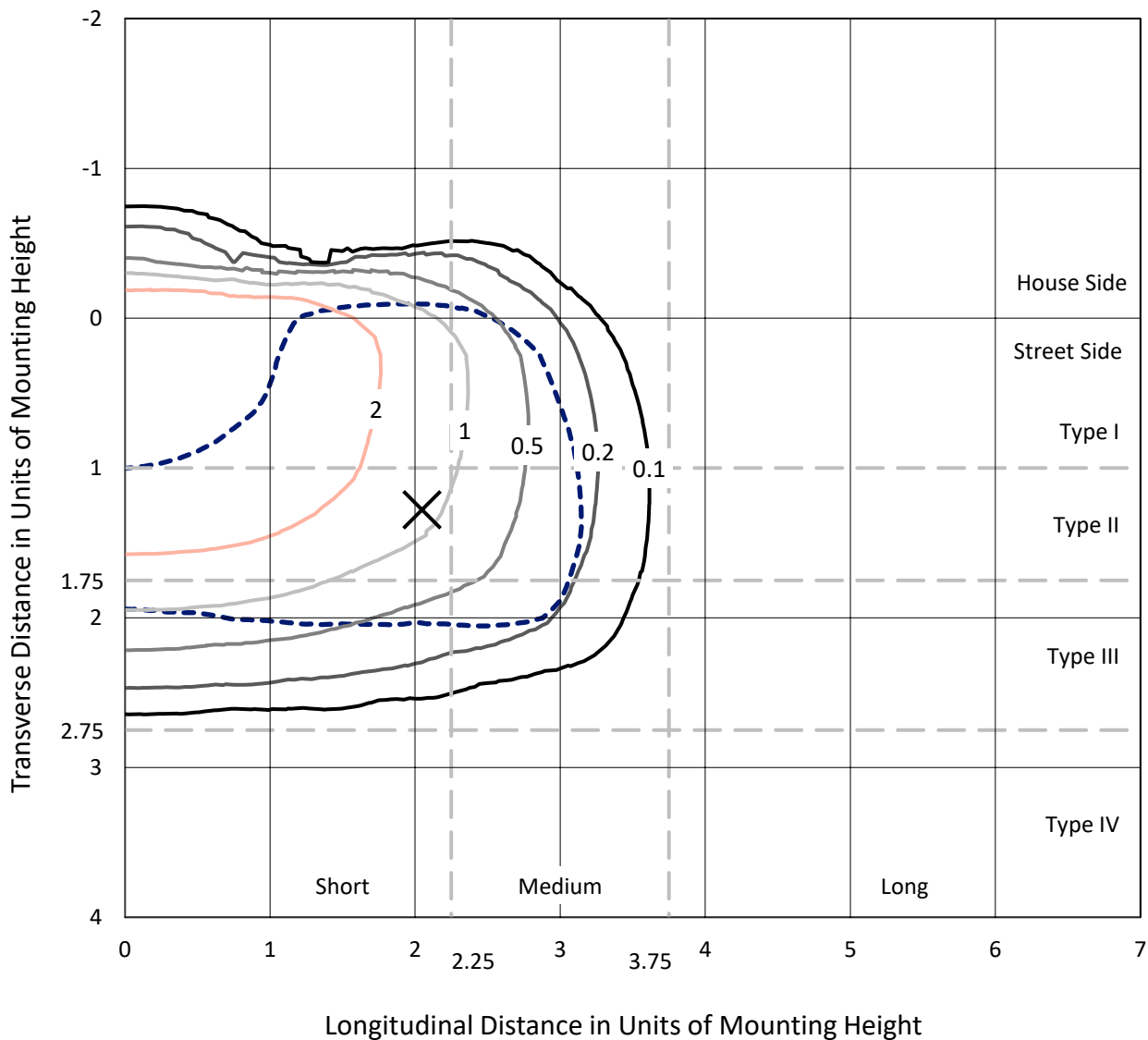
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

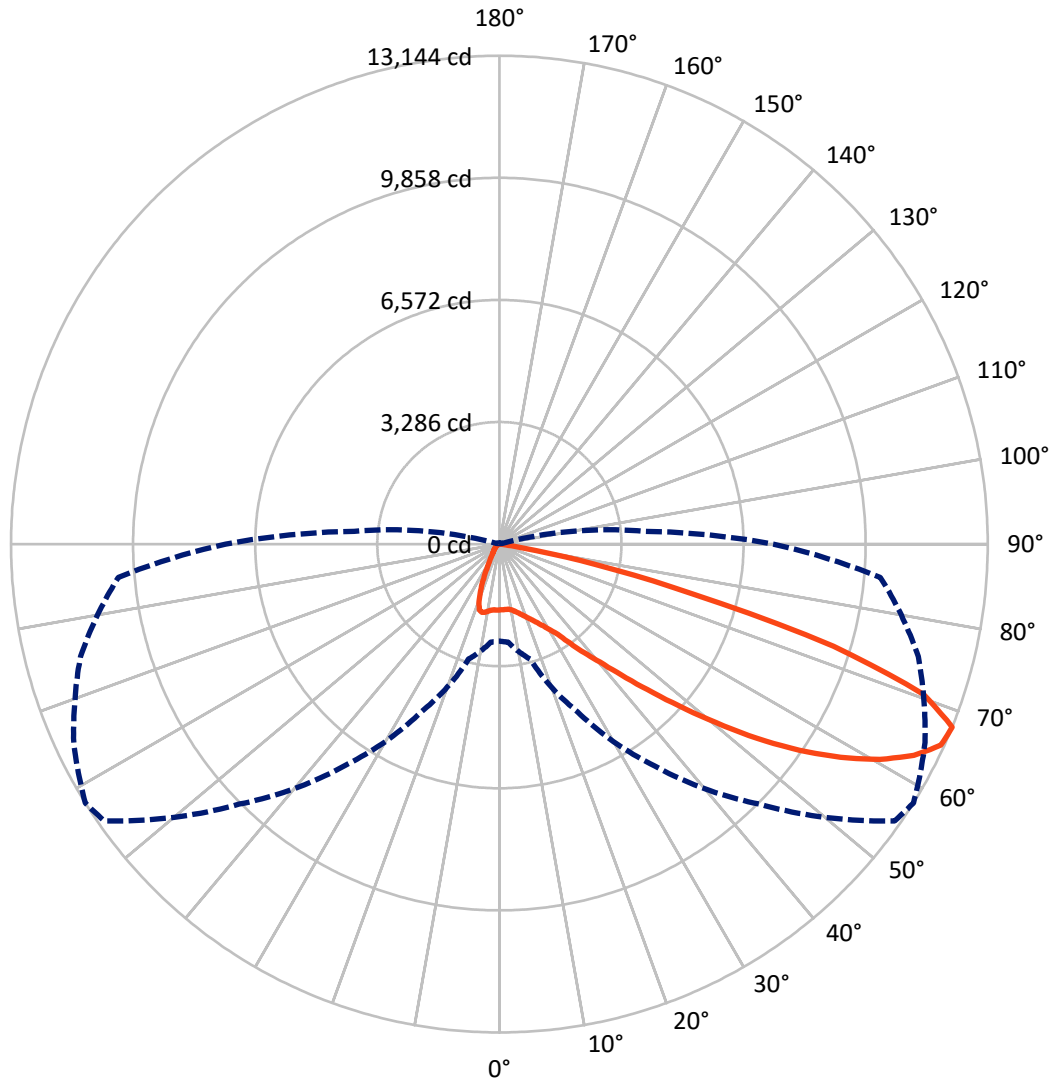
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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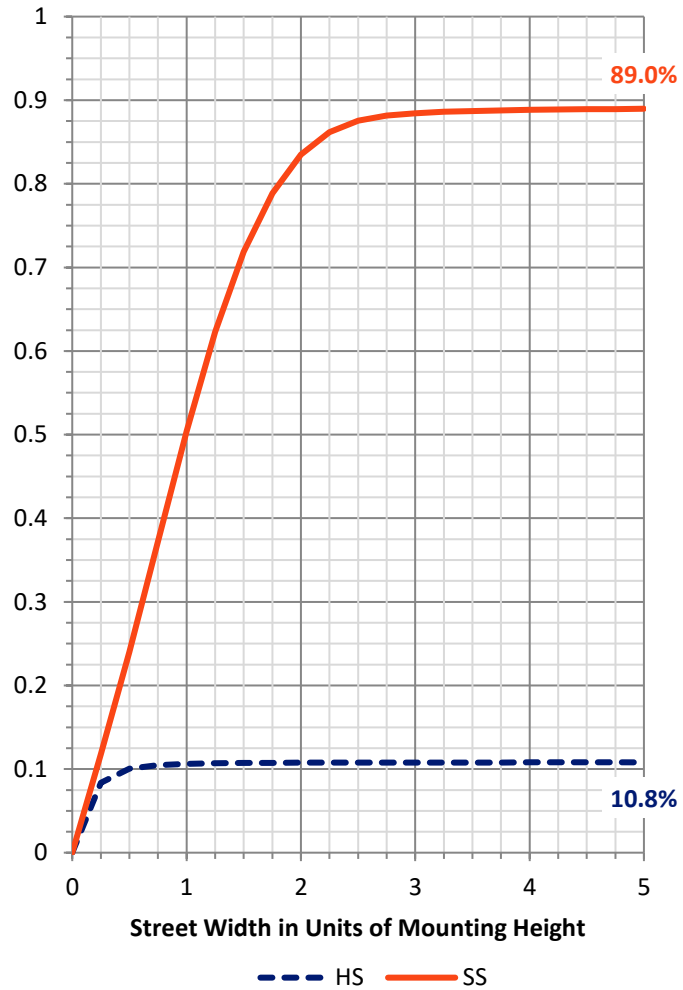
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1772.3	0.0	1772.3
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	14472.9	0.0	14472.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	16245.2	0.0	16245.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.0
10°-20°	466.9	2.9
20°-30°	815.0	5.0
30°-40°	1455.5	9.0
40°-50°	2660.3	16.4
50°-60°	4424.4	27.2
60°-70°	4805.7	29.6
70°-80°	1411.0	8.7
80°-90°	40.2	0.2
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°	16245.2	100.0
0°-180°	16245.2	100.0

Coefficient of Utilization



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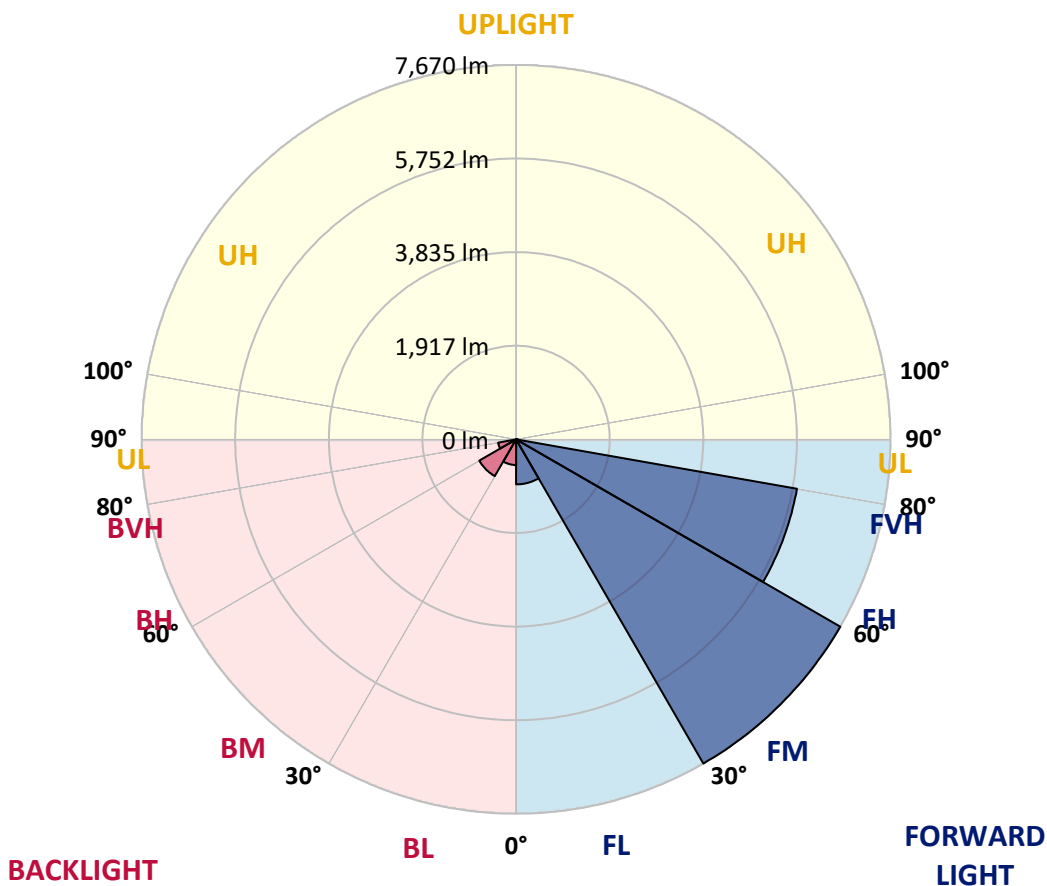
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.5	5.7			
FM (30°-60°)	7669.7	47.2			
FH (60°-80°)	5842.5	36.0			G3/7500
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	525.7	3.2	B2/1000		
BM (30°-60°)	870.5	5.4	B1/1000		
BH (60°-80°)	374.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2
2.5°	1736.9	1733.8	1733.8	1746.4	1748.0	1754.4	1768.7	1770.2	1778.2	1775.0	1763.9
5°	1646.5	1648.1	1657.6	1679.8	1698.9	1722.7	1757.6	1765.5	1782.9	1792.4	1786.1
7.5°	1562.4	1564.0	1578.3	1613.2	1649.7	1697.3	1754.4	1770.2	1805.1	1830.5	1832.1
10°	1530.7	1529.1	1543.4	1583.1	1630.7	1697.3	1779.8	1800.4	1852.7	1897.1	1905.1
12.5°	1540.2	1538.7	1552.9	1589.4	1641.8	1725.8	1824.2	1852.7	1919.3	1987.6	2001.8
15°	1578.3	1576.7	1586.2	1616.4	1673.5	1760.7	1881.3	1924.1	2008.2	2090.7	2112.9
17.5°	1692.5	1684.6	1675.1	1678.2	1711.6	1802.0	1954.2	2006.6	2111.3	2209.6	2228.7
20°	1895.6	1874.9	1849.6	1816.2	1800.4	1862.2	2038.3	2098.6	2225.5	2338.1	2341.3
22.5°	2201.7	2193.8	2135.1	2038.3	1970.1	1971.7	2136.7	2206.5	2361.9	2485.6	2468.2
25°	2628.4	2623.6	2533.2	2374.6	2196.9	2136.7	2262.0	2333.4	2523.7	2655.4	2599.8
27.5°	3158.2	3124.9	3018.6	2804.5	2539.6	2350.8	2420.6	2484.0	2695.0	2818.7	2714.1
30°	3619.8	3621.4	3521.4	3297.8	2999.6	2672.8	2614.1	2669.6	2852.1	2982.1	2855.2
32.5°	4063.9	4078.2	3968.8	3767.3	3440.5	3093.2	2891.7	2901.2	3053.5	3194.7	3040.8
35°	4476.4	4487.5	4411.3	4240.0	3935.5	3532.6	3278.8	3274.0	3356.5	3500.8	3299.4
37.5°	4938.0	4949.1	4874.5	4720.6	4435.1	4035.4	3718.1	3711.8	3745.1	3862.5	3632.5
40°	5429.7	5450.3	5367.8	5237.8	4964.9	4627.1	4228.9	4171.8	4138.5	4276.5	4063.9
42.5°	5927.8	5959.5	5930.9	5800.9	5567.7	5288.5	4892.0	4803.1	4731.7	4904.6	4679.4
45°	6546.4	6584.5	6571.8	6471.9	6291.0	6064.2	5689.8	5586.7	5553.4	5713.6	5445.6
47.5°	7141.2	7182.5	7228.5	7206.3	7077.8	6973.1	6557.5	6498.8	6489.3	6660.6	6245.0
50°	7583.8	7621.9	7797.9	7924.8	8012.1	7989.9	7629.8	7542.6	7528.3	7637.7	7088.9
52.5°	7901.1	7937.5	8180.2	8576.8	8897.2	9071.7	8708.4	8689.4	8611.7	8573.6	7878.8
55°	8146.9	8197.7	8453.1	9052.7	9698.3	10085.3	9858.5	9790.3	9590.4	9371.5	8611.7
57.5°	8196.1	8216.7	8576.8	9385.8	10320.1	10946.6	10946.6	10827.7	10442.2	10139.2	9458.7
60°	7755.1	7818.6	8305.5	9358.8	10586.6	11509.7	11849.2	11766.7	11246.4	10873.7	10274.1
62.5°	6776.4	6847.8	7441.0	8713.2	10320.1	11625.5	12532.9	12520.2	11933.3	11481.2	10949.8
65°	5196.5	5248.9	5766.0	7288.8	9193.8	11179.8	13021.4	13056.3	12475.8	11882.5	11183.0
67.5°	2610.9	2647.4	3205.8	4979.2	7287.2	9896.5	12988.1	13143.6	12640.7	11670.0	10293.1
70°	912.1	948.6	1211.9	2136.7	4435.1	7556.8	11865.1	12118.9	11671.5	9961.6	7593.3
72.5°	312.5	329.9	502.8	793.1	1725.8	4479.5	9022.5	9404.8	8603.8	6687.6	4363.7
75°	177.7	188.8	269.7	429.9	723.3	1473.6	5118.8	5353.6	5015.7	3645.2	1795.6
77.5°	120.6	130.1	168.1	244.3	399.7	474.3	2087.5	2628.4	2292.1	1189.7	458.4
80°	71.4	77.7	103.1	144.3	204.6	184.0	447.3	594.8	766.2	355.3	138.0
82.5°	33.3	38.1	66.6	95.2	103.1	77.7	131.7	160.2	215.7	174.5	57.1
85°	0.0	0.0	22.2	39.7	38.1	22.2	36.5	39.7	58.7	87.2	22.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	9.5	17.4	9.5
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°	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2	1770.2
2.5°	1776.6	1765.5	1778.2	1771.8	1778.2	1776.6	1763.9	1756.0	1756.0	1741.7	1736.9
5°	1798.8	1787.7	1790.9	1776.6	1773.4	1765.5	1749.6	1743.3	1743.3	1729.0	1724.2
7.5°	1848.0	1830.5	1827.3	1798.8	1786.1	1763.9	1735.3	1724.2	1722.7	1708.4	1703.6
10°	1925.7	1905.1	1890.8	1854.3	1817.8	1773.4	1713.1	1662.4	1633.8	1595.8	1592.6
12.5°	2020.9	1995.5	1973.3	1917.8	1857.5	1757.6	1579.9	1394.3	1280.1	1189.7	1196.0
15°	2127.1	2103.4	2068.5	1984.4	1860.7	1600.5	1229.3	943.8	804.2	729.7	726.5
17.5°	2242.9	2208.0	2150.9	2036.7	1760.7	1223.0	799.5	564.7	491.7	466.4	460.0
20°	2350.8	2308.0	2236.6	2047.8	1472.0	828.0	499.7	437.8	425.1	417.2	417.2
22.5°	2465.0	2411.1	2304.8	1962.2	1094.5	529.8	425.1	410.8	401.3	390.2	388.6
25°	2580.8	2511.0	2366.7	1738.5	717.0	417.2	398.1	382.3	364.8	347.4	342.6
27.5°	2679.2	2588.7	2414.3	1405.4	460.0	375.9	363.2	336.3	312.5	293.5	290.3
30°	2796.5	2680.7	2434.9	1027.9	361.7	331.5	312.5	283.9	255.4	236.3	230.0
32.5°	2953.6	2826.7	2403.2	669.4	320.4	291.9	261.7	228.4	199.9	179.2	176.1
35°	3197.9	3047.2	2257.2	426.7	290.3	252.2	215.7	180.8	157.0	141.2	138.0
37.5°	3496.1	3356.5	2017.7	320.4	260.1	218.9	176.1	142.8	125.3	114.2	111.0
40°	3938.6	3743.5	1721.1	280.8	230.0	185.6	144.3	117.4	104.7	95.2	92.0
42.5°	4512.8	4200.4	1380.0	255.4	201.5	155.5	117.4	96.8	85.7	79.3	77.7
45°	5183.8	4646.1	1020.0	230.0	174.5	128.5	96.8	79.3	71.4	66.6	65.0
47.5°	5870.7	5036.3	704.3	203.0	149.1	106.3	80.9	68.2	61.9	55.5	53.9
50°	6603.5	5366.2	480.6	176.1	126.9	87.2	69.8	61.9	53.9	49.2	47.6
52.5°	7141.2	5488.4	334.7	152.3	107.9	74.6	61.9	55.5	49.2	42.8	41.2
55°	7637.7	5485.2	253.8	128.5	92.0	65.0	55.5	49.2	42.8	38.1	36.5
57.5°	8132.6	5442.4	199.9	109.5	79.3	58.7	49.2	42.8	39.7	33.3	31.7
60°	8453.1	5280.6	155.5	92.0	68.2	50.8	42.8	38.1	33.3	28.6	27.0
62.5°	8622.8	5055.3	119.0	73.0	55.5	44.4	38.1	33.3	28.6	23.8	22.2
65°	8392.8	4655.6	93.6	57.1	42.8	38.1	31.7	27.0	22.2	17.4	15.9
67.5°	7372.8	3925.9	73.0	46.0	33.3	28.6	27.0	22.2	15.9	12.7	11.1
70°	5210.8	2688.7	57.1	34.9	25.4	22.2	20.6	17.4	12.7	9.5	7.9
72.5°	2860.0	1356.2	41.2	25.4	19.0	17.4	15.9	14.3	11.1	7.9	7.9
75°	1100.8	372.8	30.1	17.4	12.7	12.7	11.1	11.1	9.5	6.3	6.3
77.5°	287.1	111.0	19.0	11.1	7.9	7.9	7.9	6.3	6.3	4.8	4.8
80°	92.0	36.5	11.1	7.9	6.3	4.8	4.8	3.2	4.8	3.2	3.2
82.5°	30.1	12.7	6.3	6.3	4.8	3.2	3.2	1.6	1.6	0.0	0.0
85°	11.1	6.3	4.8	3.2	3.2	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	6.3	3.2	3.2	3.2	3.2	1.6	0.0	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)