

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: P637893

Luminaire Tested: GWS-SA4D-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637893
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-SA4D-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18138.5 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

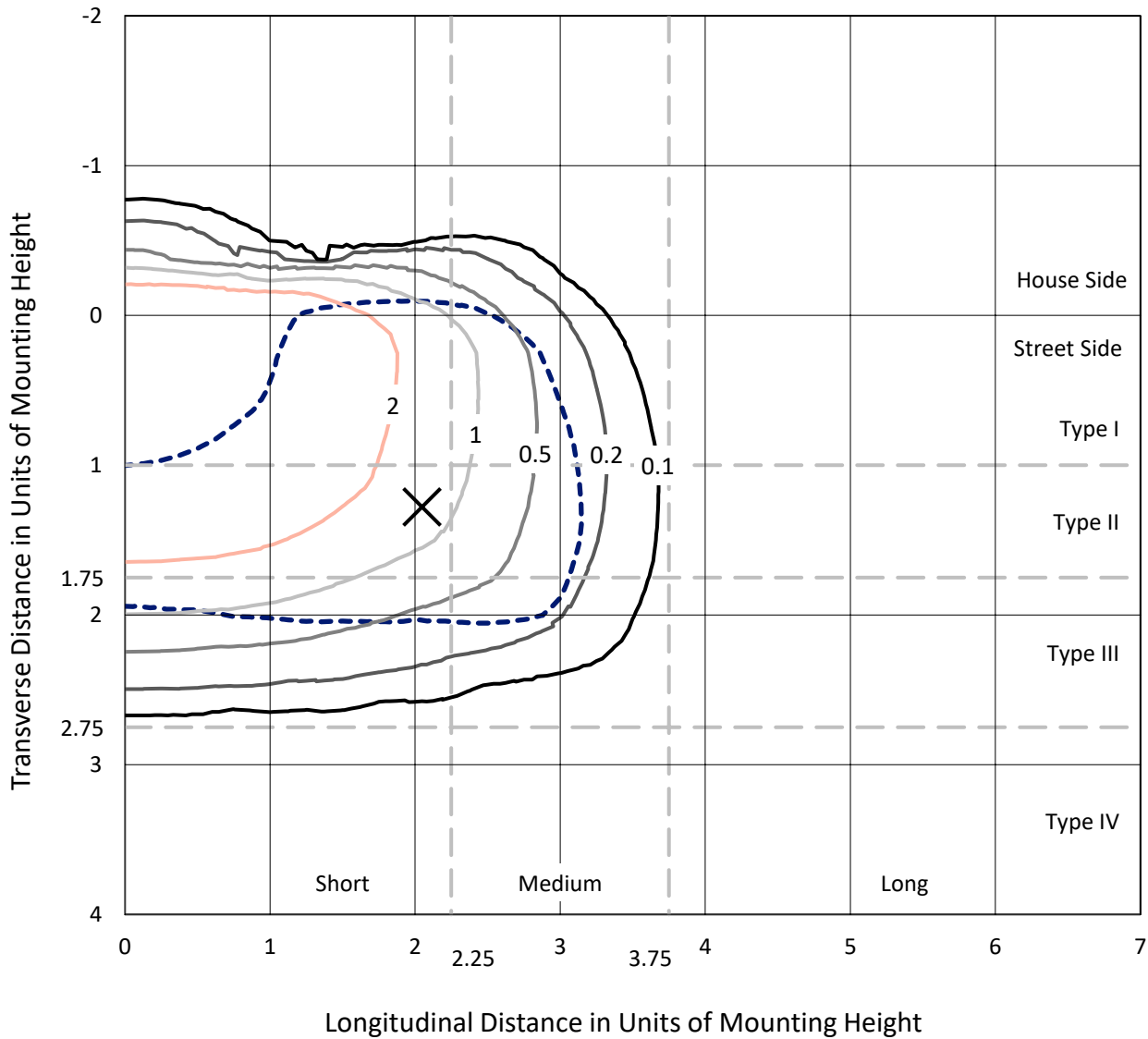
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

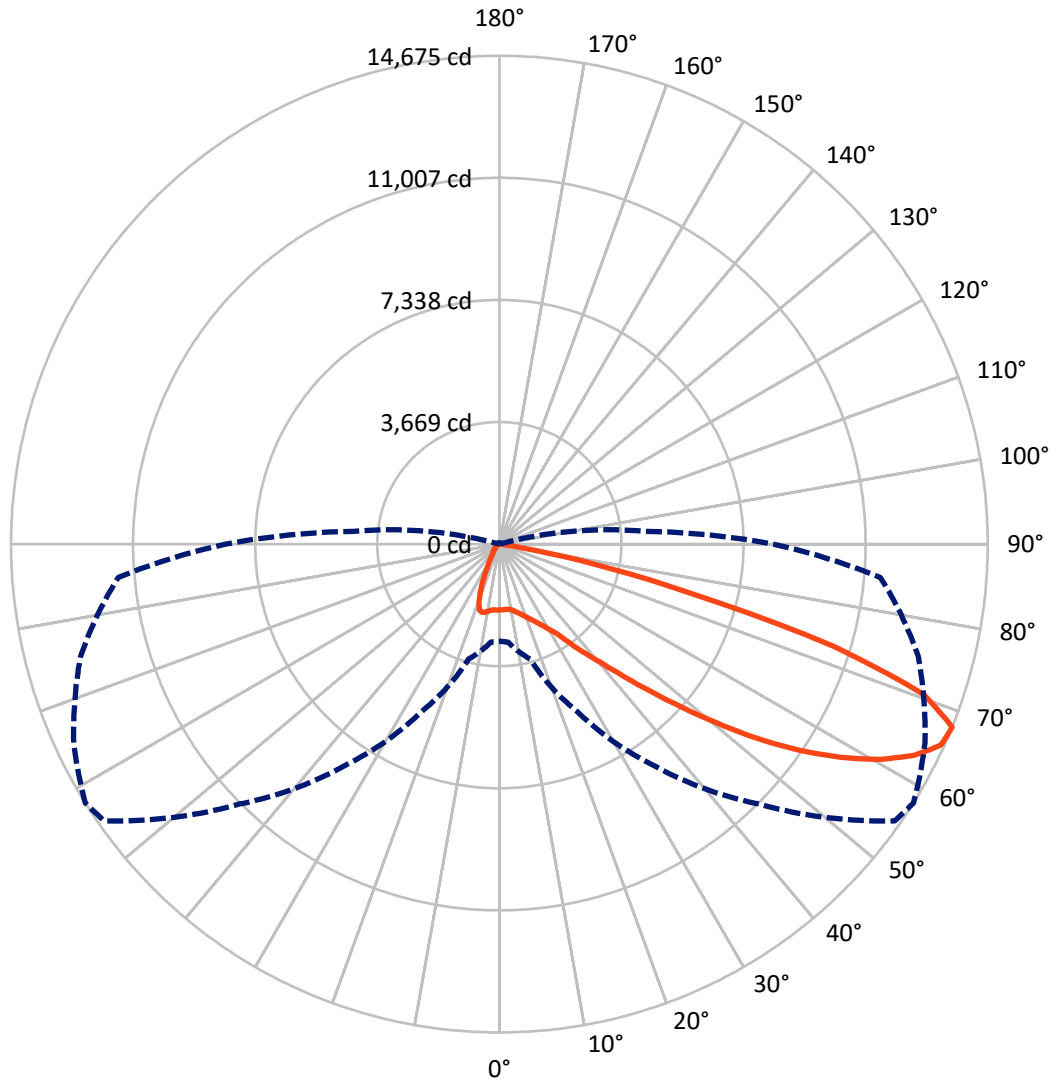
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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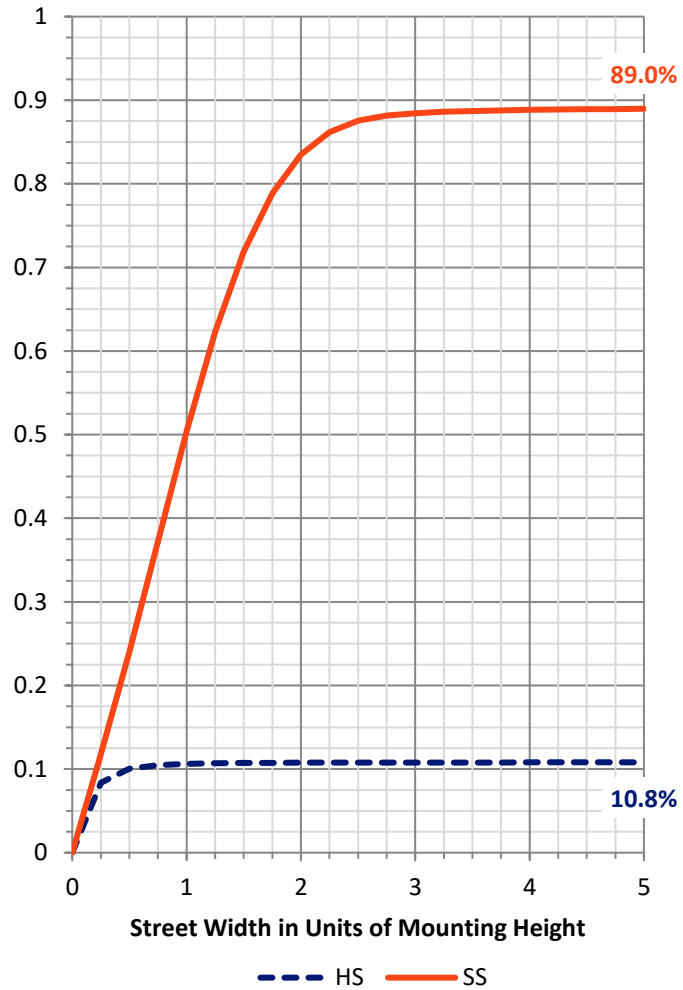
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1978.9	0.0	1978.9
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	16159.6	0.0	16159.6
	% Fixture	89.1	0.0	89.1
Total	Lumens	18138.5	0.0	18138.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.0
10°-20°	521.3	2.9
20°-30°	910.0	5.0
30°-40°	1625.1	9.0
40°-50°	2970.4	16.4
50°-60°	4940.0	27.2
60°-70°	5365.7	29.6
70°-80°	1575.4	8.7
80°-90°	44.9	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°	18138.5	100.0
0°-180°	18138.5	100.0

Coefficient of Utilization



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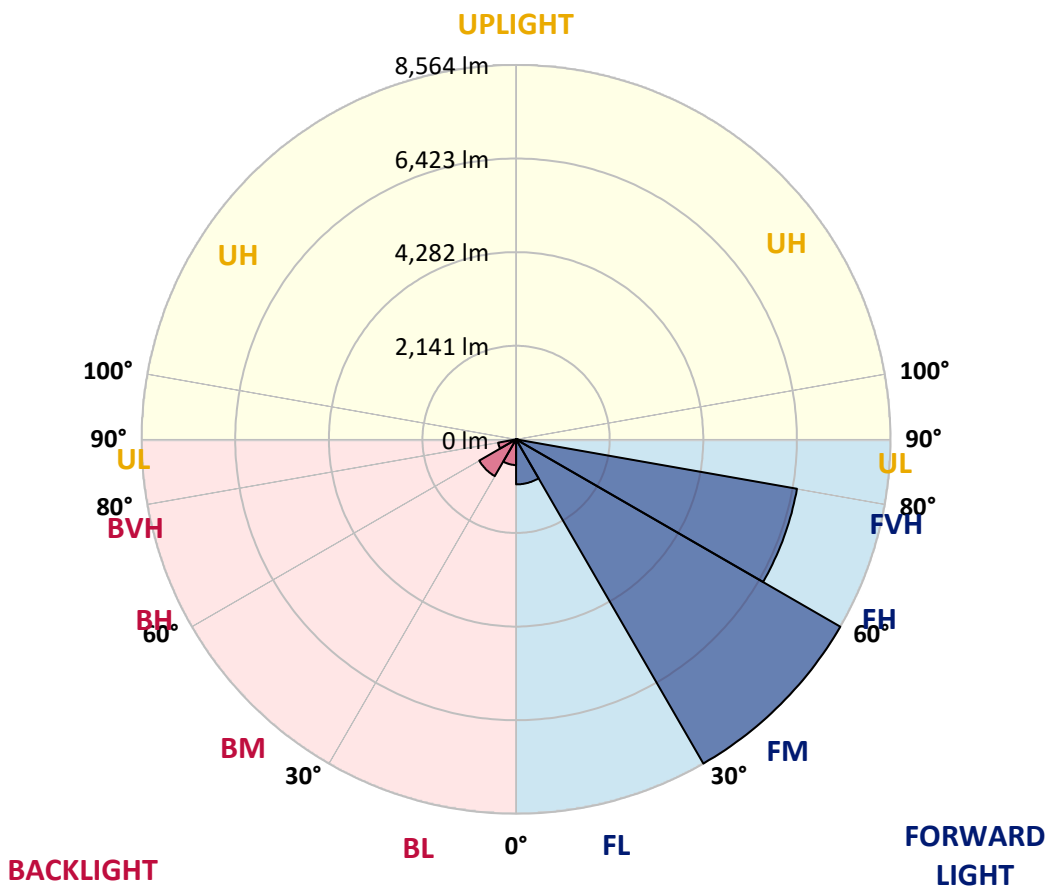
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.0	5.7			
FM (30°-60°)	8563.6	47.2			
FH (60°-80°)	6523.4	36.0			G3/7500
FVH (80°-90°)	42.7	0.2			G1/100
BL (0°-30°)	587.0	3.2	B2/1000		
BM (30°-60°)	972.0	5.4	B1/1000		
BH (60°-80°)	417.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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°	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6
2.5°	1939.4	1935.8	1935.8	1950.0	1951.8	1958.8	1974.8	1976.6	1985.4	1981.9	1969.5
5°	1838.4	1840.2	1850.8	1875.6	1896.9	1923.4	1962.4	1971.2	1990.7	2001.4	1994.3
7.5°	1744.5	1746.3	1762.3	1801.2	1842.0	1895.1	1958.8	1976.6	2015.5	2043.9	2045.6
10°	1709.1	1707.3	1723.3	1767.6	1820.7	1895.1	1987.2	2010.2	2068.7	2118.2	2127.1
12.5°	1719.7	1718.0	1733.9	1774.6	1833.1	1927.0	2036.8	2068.7	2143.0	2219.2	2235.1
15°	1762.3	1760.5	1771.1	1804.8	1868.5	1965.9	2100.5	2148.4	2242.2	2334.3	2359.1
17.5°	1889.8	1880.9	1870.3	1873.8	1911.0	2012.0	2182.0	2240.4	2357.3	2467.2	2488.4
20°	2116.5	2093.4	2065.1	2027.9	2010.2	2079.3	2275.9	2343.2	2484.9	2610.6	2614.2
22.5°	2458.3	2449.4	2383.9	2275.9	2199.7	2201.5	2385.7	2463.6	2637.2	2775.3	2755.8
25°	2934.7	2929.4	2828.5	2651.3	2453.0	2385.7	2525.6	2605.3	2817.8	2964.8	2902.8
27.5°	3526.3	3489.1	3370.4	3131.3	2835.5	2624.8	2702.7	2773.6	3009.1	3147.3	3030.4
30°	4041.7	4043.4	3931.9	3682.1	3349.2	2984.3	2918.8	2980.8	3184.4	3329.7	3188.0
32.5°	4537.6	4553.5	4431.3	4206.4	3841.5	3453.7	3228.7	3239.4	3409.4	3567.0	3395.2
35°	4998.1	5010.5	4925.4	4734.2	4394.1	3944.3	3660.9	3655.6	3747.7	3908.8	3683.9
37.5°	5513.5	5525.9	5442.6	5270.8	4952.0	4505.7	4151.5	4144.4	4181.6	4312.6	4055.8
40°	6062.5	6085.5	5993.4	5848.2	5543.6	5166.3	4721.8	4658.0	4620.8	4774.9	4537.6
42.5°	6618.6	6654.0	6622.2	6476.9	6216.6	5904.9	5462.1	5362.9	5283.2	5476.3	5224.8
45°	7309.4	7351.9	7337.7	7226.1	7024.2	6770.9	6353.0	6237.8	6200.6	6379.5	6080.2
47.5°	7973.5	8019.6	8070.9	8046.1	7902.7	7785.8	7321.8	7256.2	7245.6	7436.9	6972.8
50°	8467.7	8510.2	8706.8	8848.4	8945.9	8921.1	8519.0	8421.6	8405.7	8527.9	7915.1
52.5°	8821.9	8862.6	9133.6	9576.4	9934.1	10129.0	9723.4	9702.1	9615.3	9572.8	8797.1
55°	9096.4	9153.1	9438.2	10107.7	10828.5	11260.7	11007.4	10931.3	10708.1	10463.7	9615.3
57.5°	9151.3	9174.3	9576.4	10479.6	11522.8	12222.4	12222.4	12089.6	11659.2	11320.9	10561.1
60°	8658.9	8729.8	9273.5	10449.5	11820.4	12851.1	13230.2	13138.1	12557.1	12140.9	11471.5
62.5°	7566.2	7645.9	8308.3	9728.7	11522.8	12980.4	13993.5	13979.3	13324.0	12819.3	12225.9
65°	5802.1	5860.6	6438.0	8138.2	10265.3	12482.8	14539.0	14578.0	13929.8	13267.4	12486.3
67.5°	2915.2	2956.0	3579.4	5559.5	8136.5	11049.9	14501.8	14675.4	14113.9	13030.0	11492.7
70°	1018.4	1059.1	1353.1	2385.7	4952.0	8437.6	13247.9	13531.3	13031.8	11122.5	8478.3
72.5°	348.9	368.4	561.4	885.6	1927.0	5001.6	10074.1	10500.9	9606.5	7467.0	4872.3
75°	198.4	210.8	301.1	480.0	807.6	1645.4	5715.4	5977.5	5600.2	4070.0	2004.9
77.5°	134.6	145.2	187.7	272.8	446.3	529.6	2330.8	2934.7	2559.2	1328.3	511.8
80°	79.7	86.8	115.1	161.2	228.5	205.4	499.5	664.2	855.4	396.7	154.1
82.5°	37.2	42.5	74.4	106.3	115.1	86.8	147.0	178.9	240.9	194.8	63.8
85°	0.0	0.0	24.8	44.3	42.5	24.8	40.7	44.3	65.5	97.4	24.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	3.5	5.3	10.6	19.5	10.6
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°	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6	1976.6
2.5°	1983.6	1971.2	1985.4	1978.3	1985.4	1983.6	1969.5	1960.6	1960.6	1944.7	1939.4
5°	2008.4	1996.0	1999.6	1983.6	1980.1	1971.2	1953.5	1946.4	1946.4	1930.5	1925.2
7.5°	2063.3	2043.9	2040.3	2008.4	1994.3	1969.5	1937.6	1925.2	1923.4	1907.5	1902.2
10°	2150.1	2127.1	2111.2	2070.4	2029.7	1980.1	1912.8	1856.1	1824.2	1781.7	1778.2
12.5°	2256.4	2228.1	2203.3	2141.3	2074.0	1962.4	1764.0	1556.8	1429.3	1328.3	1335.4
15°	2375.1	2348.5	2309.5	2215.7	2077.5	1787.0	1372.6	1053.8	898.0	814.7	811.2
17.5°	2504.3	2465.4	2401.6	2274.1	1965.9	1365.5	892.6	630.5	549.0	520.7	513.6
20°	2624.8	2577.0	2497.3	2286.5	1643.6	924.5	557.9	488.8	474.7	465.8	465.8
22.5°	2752.3	2692.1	2573.4	2190.9	1222.1	591.5	474.7	458.7	448.1	435.7	433.9
25°	2881.6	2803.7	2642.5	1941.1	800.5	465.8	444.5	426.8	407.4	387.9	382.6
27.5°	2991.4	2890.4	2695.6	1569.2	513.6	419.8	405.6	375.5	348.9	327.7	324.1
30°	3122.5	2993.2	2718.6	1147.7	403.8	370.2	348.9	317.0	285.1	263.9	256.8
32.5°	3297.8	3156.1	2683.2	747.4	357.8	325.9	292.2	255.0	223.2	200.1	196.6
35°	3570.6	3402.3	2520.3	476.4	324.1	281.6	240.9	201.9	175.3	157.6	154.1
37.5°	3903.5	3747.7	2252.8	357.8	290.5	244.4	196.6	159.4	139.9	127.5	124.0
40°	4397.7	4179.8	1921.7	313.5	256.8	207.2	161.2	131.1	116.9	106.3	102.7
42.5°	5038.8	4689.9	1540.9	285.1	224.9	173.6	131.1	108.0	95.6	88.6	86.8
45°	5788.0	5187.6	1138.8	256.8	194.8	143.5	108.0	88.6	79.7	74.4	72.6
47.5°	6554.9	5623.3	786.4	226.7	166.5	118.7	90.3	76.2	69.1	62.0	60.2
50°	7373.1	5991.7	536.6	196.6	141.7	97.4	77.9	69.1	60.2	54.9	53.1
52.5°	7973.5	6128.0	373.7	170.0	120.4	83.2	69.1	62.0	54.9	47.8	46.0
55°	8527.9	6124.5	283.4	143.5	102.7	72.6	62.0	54.9	47.8	42.5	40.7
57.5°	9080.5	6076.7	223.2	122.2	88.6	65.5	54.9	47.8	44.3	37.2	35.4
60°	9438.2	5896.0	173.6	102.7	76.2	56.7	47.8	42.5	37.2	31.9	30.1
62.5°	9627.7	5644.5	132.8	81.5	62.0	49.6	42.5	37.2	31.9	26.6	24.8
65°	9370.9	5198.2	104.5	63.8	47.8	42.5	35.4	30.1	24.8	19.5	17.7
67.5°	8232.1	4383.5	81.5	51.4	37.2	31.9	30.1	24.8	17.7	14.2	12.4
70°	5818.1	3002.0	63.8	39.0	28.3	24.8	23.0	19.5	14.2	10.6	8.9
72.5°	3193.3	1514.3	46.0	28.3	21.3	19.5	17.7	15.9	12.4	8.9	8.9
75°	1229.1	416.2	33.7	19.5	14.2	14.2	12.4	12.4	10.6	7.1	7.1
77.5°	320.6	124.0	21.3	12.4	8.9	8.9	8.9	7.1	7.1	5.3	5.3
80°	102.7	40.7	12.4	8.9	7.1	5.3	5.3	3.5	5.3	3.5	3.5
82.5°	33.7	14.2	7.1	7.1	5.3	3.5	3.5	1.8	1.8	0.0	0.0
85°	12.4	7.1	5.3	3.5	3.5	3.5	1.8	0.0	0.0	0.0	0.0
87.5°	7.1	3.5	3.5	3.5	3.5	1.8	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)