

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: P637555

Luminaire Tested: GWS-SA4D-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13511.9 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

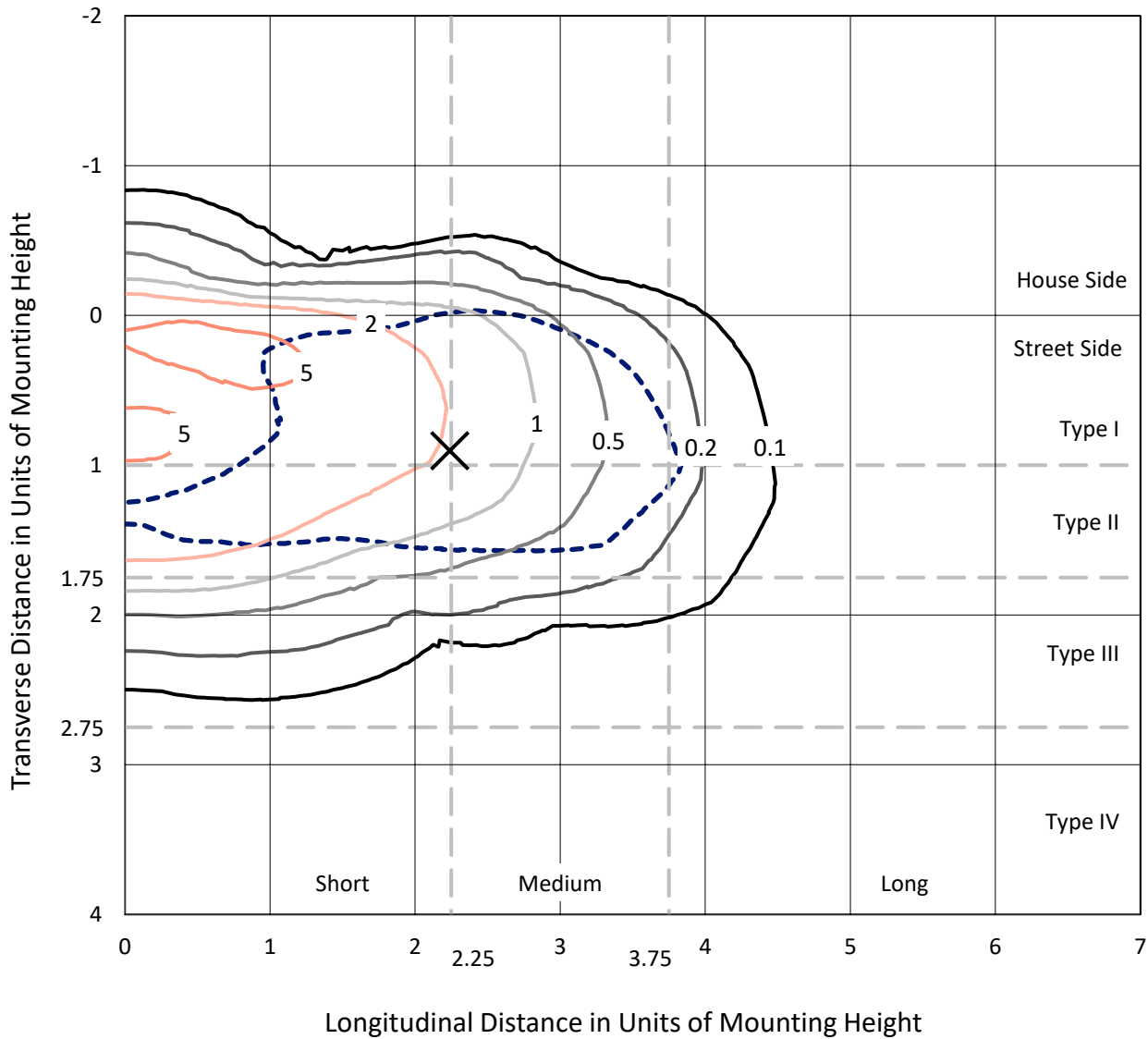
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

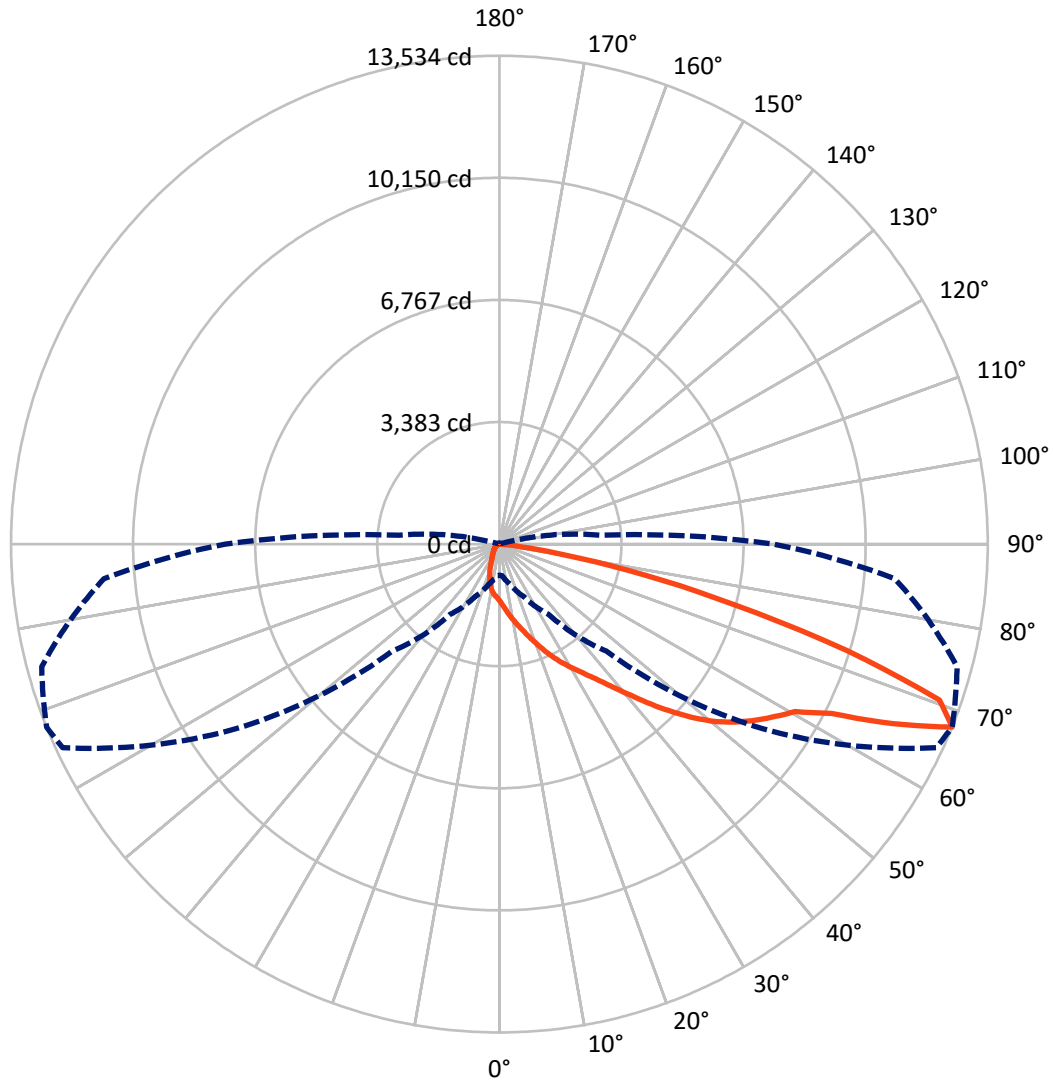
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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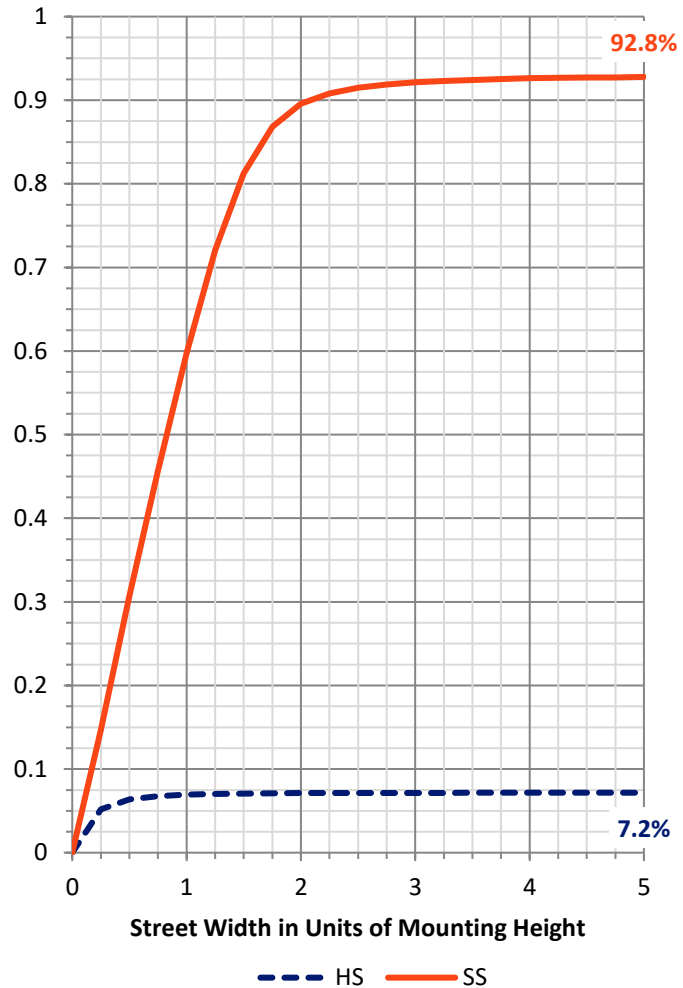
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.7	0.0	975.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12536.2	0.0	12536.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	13511.9	0.0	13511.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.1
10°-20°	440.4	3.3
20°-30°	756.8	5.6
30°-40°	1315.9	9.7
40°-50°	2296.0	17.0
50°-60°	3463.0	25.6
60°-70°	3472.5	25.7
70°-80°	1532.1	11.3
80°-90°	81.9	0.6
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°	13511.9	100.0
0°-180°	13511.9	100.0

Coefficient of Utilization



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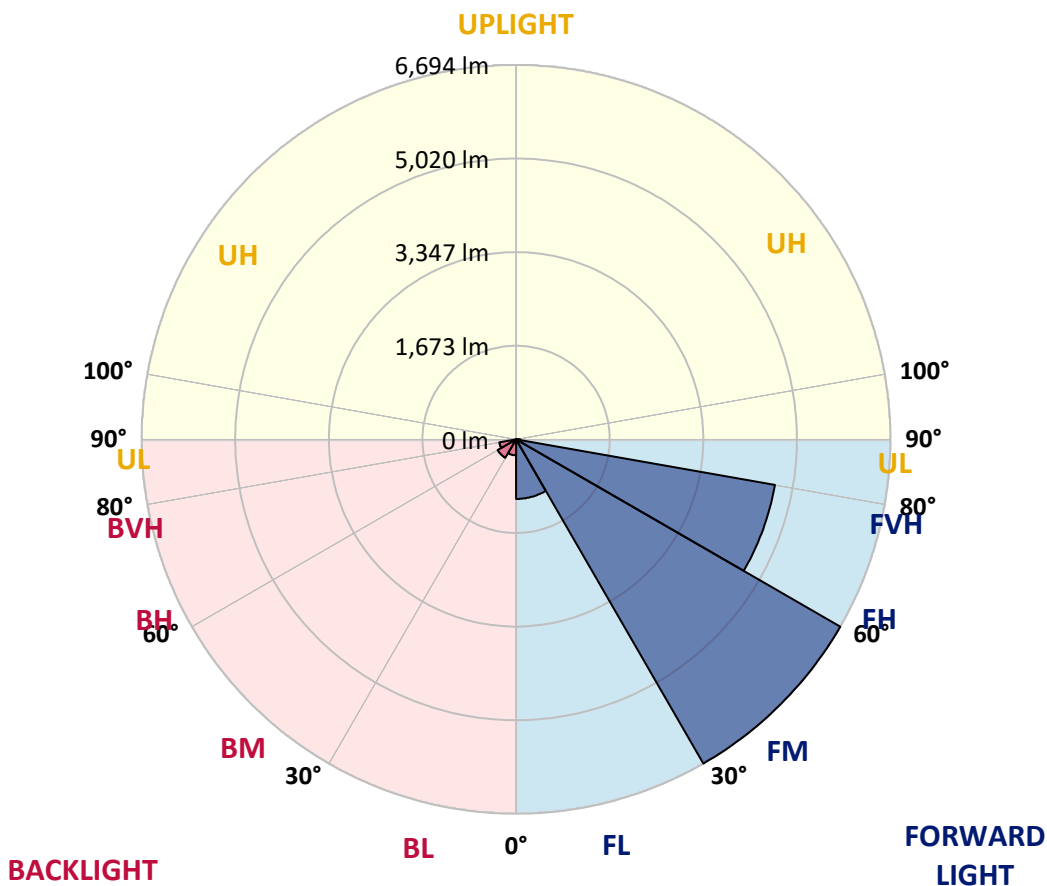
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.1	7.9			
FM (30°-60°)	6693.8	49.5			
FH (60°-80°)	4700.1	34.8			G2/5000
FVH (80°-90°)	77.2	0.6			G1/100
BL (0°-30°)	285.5	2.1	B1/500		
BM (30°-60°)	381.1	2.8	B1/1000		
BH (60°-80°)	304.5	2.3	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1831.1	1842.7	1831.1	1833.7	1800.0	1784.5	1750.9	1704.3	1692.7	1663.0	1617.7
5°	2054.8	2065.1	2053.5	2050.9	2012.1	1983.7	1928.1	1847.9	1824.6	1766.4	1677.2
7.5°	2176.3	2182.8	2186.7	2193.1	2178.9	2155.6	2105.2	2005.6	1981.1	1886.7	1761.2
10°	2189.3	2194.4	2213.8	2252.6	2281.1	2295.3	2266.9	2175.0	2136.2	2044.4	1864.7
12.5°	2153.1	2160.8	2191.8	2256.5	2335.4	2407.8	2425.9	2345.7	2310.8	2193.1	1986.2
15°	2105.2	2111.7	2154.3	2242.3	2361.2	2494.4	2569.4	2534.5	2495.7	2372.9	2120.7
17.5°	2031.5	2040.6	2100.0	2219.0	2372.9	2563.0	2724.6	2736.3	2709.1	2575.9	2269.4
20°	1990.1	1996.6	2049.6	2172.5	2365.1	2613.4	2869.4	2979.4	2949.6	2810.0	2440.1
22.5°	2025.0	2030.2	2065.1	2160.8	2339.3	2641.9	3003.9	3222.5	3205.7	3060.8	2619.9
25°	2208.7	2225.5	2204.8	2221.6	2350.9	2657.4	3112.6	3465.6	3469.5	3323.3	2806.1
27.5°	2581.1	2559.1	2510.0	2425.9	2441.4	2698.8	3205.7	3694.5	3728.1	3579.4	2971.6
30°	2960.0	2947.0	2917.3	2786.7	2678.1	2790.6	3284.5	3928.5	3981.5	3831.5	3119.0
32.5°	3385.4	3398.3	3345.3	3188.8	3003.9	2976.8	3366.0	4150.9	4250.5	4117.3	3292.3
35°	3893.6	3897.5	3792.7	3619.5	3410.0	3284.5	3512.1	4396.6	4580.3	4482.0	3523.8
37.5°	4388.9	4412.1	4355.2	4082.4	3896.2	3667.3	3753.9	4712.2	4970.8	4932.0	3814.7
40°	4827.2	4863.4	4845.3	4581.5	4337.1	4144.5	4129.0	5082.0	5442.8	5486.7	4198.8
42.5°	5176.4	5199.7	5213.9	5026.4	4810.4	4701.8	4591.9	5511.3	6000.1	6179.9	4669.5
45°	5544.9	5552.7	5582.4	5455.7	5266.9	5276.0	5138.9	6032.4	6587.2	6948.0	5210.0
47.5°	6014.3	6040.2	6026.0	5892.8	5722.1	5824.2	5704.0	6569.1	7166.5	7767.8	5763.5
50°	6585.9	6613.0	6600.1	6444.9	6254.9	6297.5	6222.5	7090.2	7725.1	8541.1	6223.8
52.5°	6880.7	6902.7	7063.1	7132.9	7033.3	6761.8	6664.8	7663.1	8197.1	9177.3	6646.7
55°	6738.5	6754.0	7103.1	7398.0	7762.6	7491.1	7109.6	8105.3	8613.5	9673.9	6960.9
57.5°	6148.8	6232.9	6707.4	7206.6	7973.4	8211.4	7831.2	8586.4	9014.4	10019.1	7270.0
60°	4939.7	4935.9	5616.0	6512.2	7562.2	8409.2	8850.2	9236.8	9416.5	10284.2	7683.8
62.5°	2729.8	2754.4	3659.5	4840.2	6419.1	7897.1	9614.4	10360.5	10333.4	10747.2	8331.6
65°	1359.1	1408.2	1899.6	2772.5	4271.2	6526.4	9746.3	12075.2	11997.6	11837.3	9670.0
67.5°	862.5	881.9	1153.5	1611.2	2374.2	4194.9	8925.2	13354.1	13533.9	13130.4	10998.0
70°	558.6	591.0	801.7	1101.7	1432.8	2162.1	6538.0	12525.2	12937.7	12988.2	10170.4
72.5°	303.9	327.2	512.1	786.2	1034.5	1081.1	3672.5	9399.7	10063.1	11017.4	7956.6
75°	173.3	190.1	280.6	534.1	759.1	658.2	1628.0	6292.4	6715.2	7873.8	5701.4
77.5°	104.7	119.0	157.8	259.9	475.9	439.7	615.5	3830.2	4099.2	4697.9	2992.3
80°	47.8	56.9	99.6	143.5	259.9	208.2	235.3	1785.8	1844.0	1928.1	990.5
82.5°	22.0	25.9	45.3	85.3	147.4	120.3	90.5	412.5	580.6	549.6	252.2
85°	2.6	2.6	16.8	34.9	41.4	31.0	37.5	93.1	117.7	165.5	72.4
87.5°	0.0	0.0	1.3	1.3	2.6	3.9	7.8	11.6	16.8	27.2	18.1
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°	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1597.0	1560.8	1528.5	1480.6	1448.3	1412.1	1387.5	1357.8	1346.1	1337.1	1324.2
5°	1633.2	1575.0	1496.1	1408.2	1335.8	1267.3	1203.9	1162.5	1126.3	1121.1	1103.0
7.5°	1692.7	1606.1	1472.9	1329.3	1206.5	1092.7	1003.5	931.1	894.8	883.2	862.5
10°	1771.6	1652.6	1438.0	1218.1	1041.0	905.2	804.3	722.9	666.0	645.3	629.8
12.5°	1859.5	1695.3	1382.4	1081.1	879.3	724.2	596.1	509.5	473.3	460.4	448.7
15°	1960.4	1735.4	1294.4	944.0	721.6	532.8	442.2	404.7	389.2	385.4	381.5
17.5°	2057.4	1761.2	1189.7	801.7	554.8	413.8	371.1	356.9	353.0	349.1	346.6
20°	2167.3	1779.3	1066.8	667.3	430.6	350.4	329.7	319.4	311.6	303.9	302.6
22.5°	2279.8	1779.3	933.6	535.4	360.8	314.2	291.0	271.6	257.3	249.6	247.0
25°	2387.1	1754.8	801.7	428.0	318.1	279.3	249.6	227.6	208.2	199.1	196.6
27.5°	2463.4	1691.4	686.7	362.1	288.4	248.3	212.1	187.5	172.0	162.9	161.6
30°	2511.3	1597.0	580.6	323.3	262.5	216.0	179.7	159.1	147.4	141.0	138.4
32.5°	2547.5	1480.6	486.2	296.1	237.9	187.5	156.5	139.7	129.3	124.1	122.8
35°	2619.9	1370.7	416.4	271.6	212.1	164.2	137.1	124.1	116.4	109.9	108.6
37.5°	2720.7	1278.9	360.8	249.6	187.5	146.1	124.1	112.5	106.0	99.6	98.3
40°	2869.4	1220.7	319.4	227.6	165.5	131.9	113.8	103.5	94.4	87.9	86.6
42.5°	3098.3	1193.6	292.2	205.6	146.1	119.0	104.7	91.8	82.8	76.3	75.0
45°	3371.2	1207.8	269.0	183.6	133.2	109.9	93.1	80.2	71.1	64.7	63.4
47.5°	3663.4	1258.2	249.6	162.9	120.3	100.9	82.8	68.5	60.8	54.3	53.0
50°	3968.6	1341.0	232.8	143.5	109.9	90.5	71.1	59.5	51.7	46.6	45.3
52.5°	4233.7	1453.5	216.0	129.3	100.9	80.2	62.1	51.7	44.0	38.8	37.5
55°	4487.1	1559.5	203.0	116.4	90.5	69.8	54.3	44.0	37.5	32.3	31.0
57.5°	4762.6	1672.0	187.5	104.7	81.5	62.1	47.8	37.5	32.3	27.2	25.9
60°	5163.5	1838.8	164.2	95.7	71.1	54.3	41.4	33.6	28.4	22.0	20.7
62.5°	5741.5	2142.7	138.4	82.8	60.8	46.6	34.9	28.4	23.3	18.1	15.5
65°	6822.5	2660.0	113.8	68.5	49.1	38.8	29.7	23.3	18.1	12.9	11.6
67.5°	7601.0	2794.4	91.8	55.6	40.1	29.7	24.6	18.1	12.9	9.1	7.8
70°	6645.4	2006.9	71.1	45.3	33.6	23.3	19.4	14.2	9.1	6.5	5.2
72.5°	5007.0	1311.2	53.0	34.9	25.9	19.4	14.2	11.6	7.8	5.2	3.9
75°	3528.9	757.8	38.8	25.9	18.1	14.2	11.6	9.1	6.5	3.9	3.9
77.5°	1809.1	312.9	27.2	18.1	12.9	9.1	7.8	5.2	5.2	3.9	2.6
80°	549.6	103.5	15.5	11.6	9.1	6.5	3.9	3.9	3.9	2.6	1.3
82.5°	125.4	33.6	9.1	9.1	6.5	5.2	3.9	1.3	1.3	0.0	0.0
85°	32.3	10.3	7.8	6.5	6.5	5.2	2.6	1.3	0.0	0.0	0.0
87.5°	11.6	6.5	6.5	6.5	5.2	3.9	2.6	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)