

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: P633870

Luminaire Tested: GWS-SA2F-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633870
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-SA2F-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12430.1 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

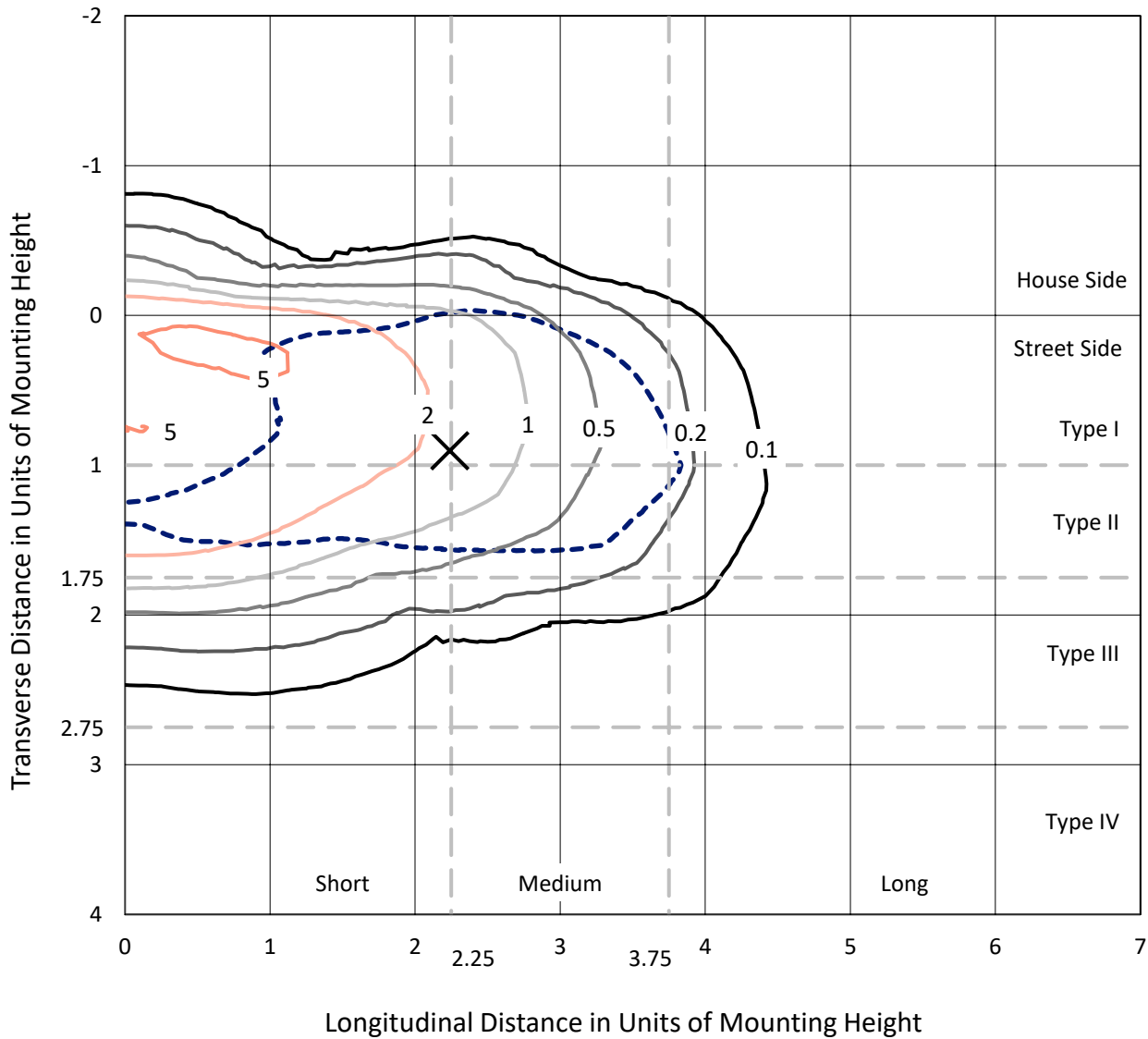
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

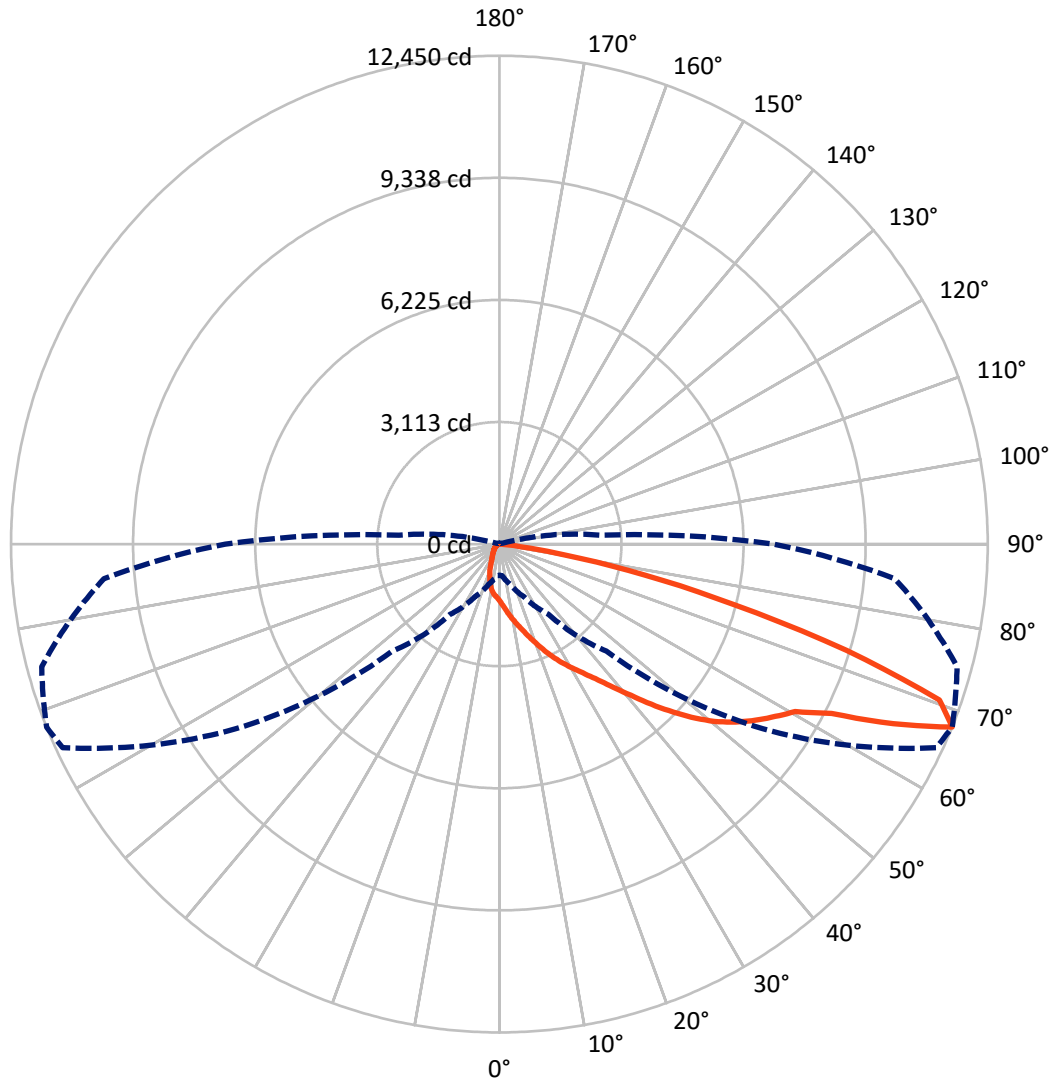
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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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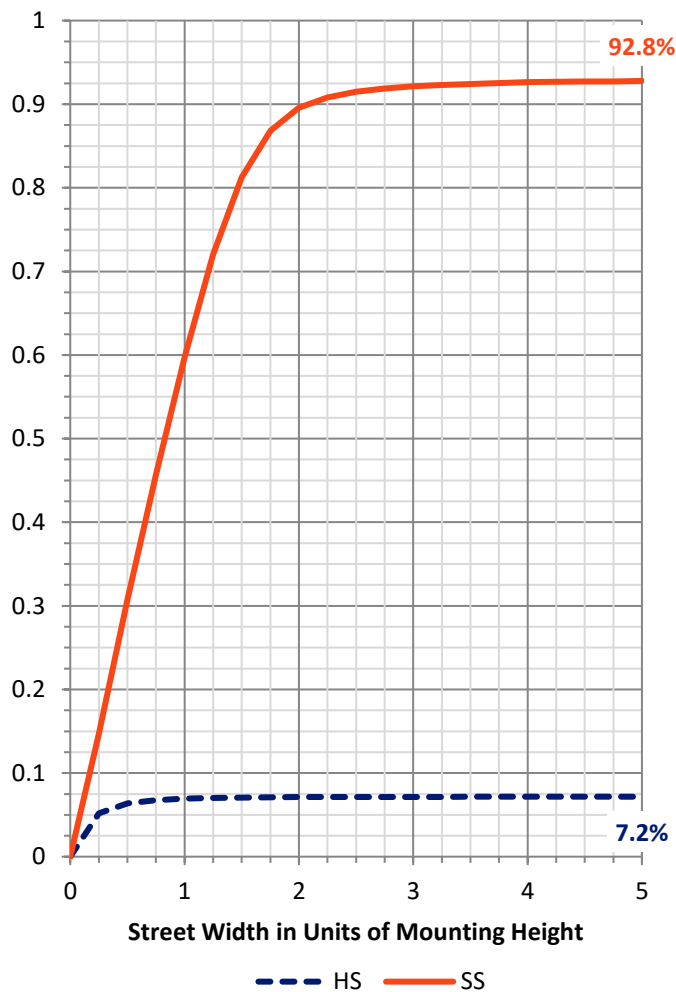
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.6	0.0	897.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11532.5	0.0	11532.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	12430.1	0.0	12430.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	1.1
10°-20°	405.1	3.3
20°-30°	696.2	5.6
30°-40°	1210.5	9.7
40°-50°	2112.2	17.0
50°-60°	3185.8	25.6
60°-70°	3194.5	25.7
70°-80°	1409.4	11.3
80°-90°	75.3	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°	12430.1	100.0
0°-180°	12430.1	100.0

Coefficient of Utilization



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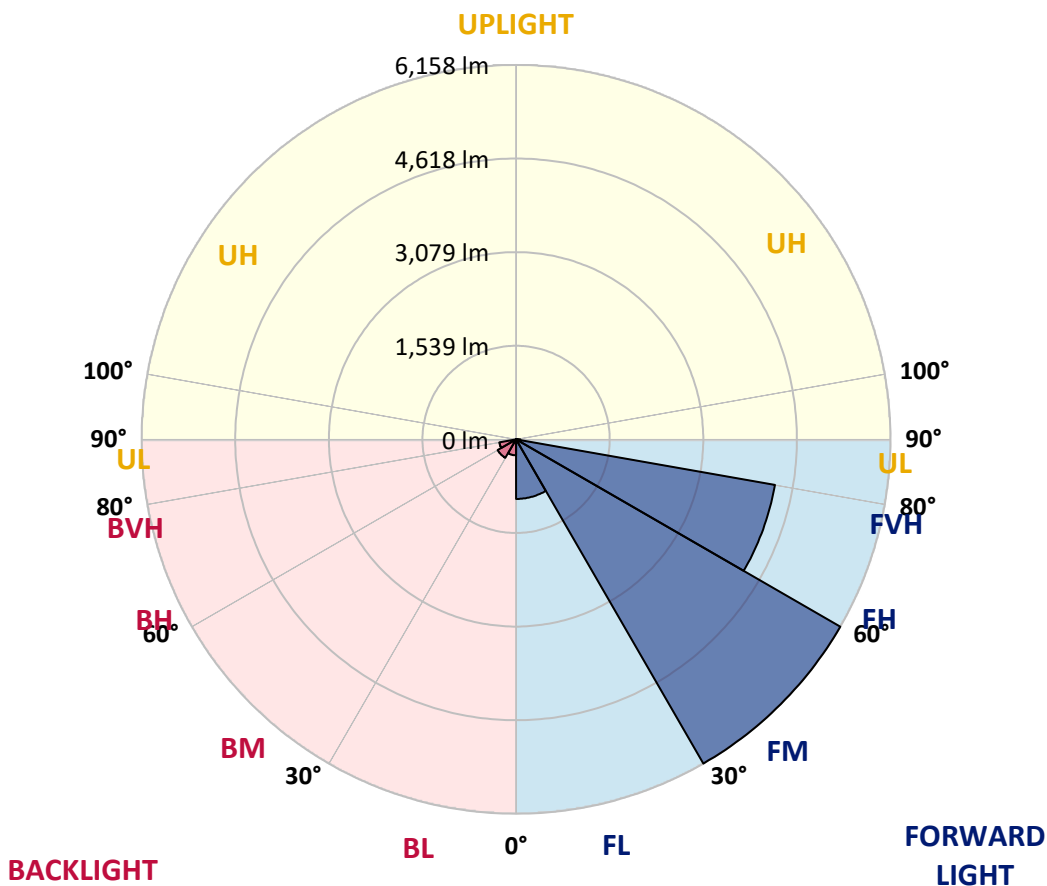
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.9	7.9			
FM (30°-60°)	6157.8	49.5			
FH (60°-80°)	4323.8	34.8			G2/5000
FVH (80°-90°)	71.0	0.6			G1/100
BL (0°-30°)	262.6	2.1	B1/500		
BM (30°-60°)	350.6	2.8	B1/1000		
BH (60°-80°)	280.1	2.3	B1/500		G1/500
BVH (80°-90°)	4.3	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°	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5
2.5°	1684.5	1695.2	1684.5	1686.8	1655.9	1641.6	1610.7	1567.9	1557.2	1529.8	1488.2
5°	1890.3	1899.8	1889.1	1886.7	1851.0	1824.8	1773.7	1699.9	1678.5	1625.0	1542.9
7.5°	2002.1	2008.0	2011.6	2017.6	2004.5	1983.1	1936.7	1845.1	1822.5	1735.6	1620.2
10°	2014.0	2018.7	2036.6	2072.3	2098.4	2111.5	2085.4	2000.9	1965.2	1880.7	1715.4
12.5°	1980.7	1987.8	2016.4	2075.8	2148.4	2215.0	2231.7	2157.9	2125.8	2017.6	1827.2
15°	1936.7	1942.6	1981.9	2062.8	2172.2	2294.7	2363.7	2331.6	2295.9	2182.9	1950.9
17.5°	1868.9	1877.2	1931.9	2041.3	2182.9	2357.8	2506.5	2517.2	2492.2	2369.7	2087.7
20°	1830.8	1836.7	1885.5	1998.5	2175.8	2404.2	2639.7	2740.8	2713.5	2585.0	2244.8
22.5°	1862.9	1867.7	1899.8	1987.8	2152.0	2430.3	2763.4	2964.5	2949.0	2815.8	2410.1
25°	2031.8	2047.3	2028.3	2043.7	2162.7	2444.6	2863.4	3188.1	3191.7	3057.3	2581.4
27.5°	2374.4	2354.2	2309.0	2231.7	2246.0	2482.7	2949.0	3398.7	3429.6	3292.8	2733.7
30°	2723.0	2711.1	2683.7	2563.6	2463.7	2567.1	3021.6	3614.0	3662.8	3524.8	2869.3
32.5°	3114.4	3126.3	3077.5	2933.5	2763.4	2738.4	3096.5	3818.6	3910.2	3787.7	3028.7
35°	3581.9	3585.4	3489.1	3329.7	3137.0	3021.6	3230.9	4044.6	4213.5	4123.1	3241.6
37.5°	4037.5	4058.9	4006.6	3755.6	3584.2	3373.7	3453.4	4334.9	4572.8	4537.1	3509.3
40°	4440.8	4474.1	4457.4	4214.7	3989.9	3812.7	3798.4	4675.1	5007.0	5047.5	3862.6
42.5°	4761.9	4783.4	4796.4	4624.0	4425.3	4325.4	4224.3	5070.1	5519.7	5685.1	4295.6
45°	5101.0	5108.1	5135.5	5018.9	4845.2	4853.5	4727.5	5549.5	6059.8	6391.7	4792.9
47.5°	5532.8	5556.6	5543.5	5421.0	5264.0	5357.9	5247.3	6043.1	6592.7	7145.9	5302.0
50°	6058.6	6083.6	6071.7	5928.9	5754.1	5793.3	5724.3	6522.5	7106.6	7857.3	5725.5
52.5°	6329.8	6350.1	6497.6	6561.8	6470.2	6220.4	6131.2	7049.5	7540.8	8442.6	6114.5
55°	6199.0	6213.3	6534.4	6805.7	7141.1	6891.3	6540.4	7456.4	7923.9	8899.4	6403.6
57.5°	5656.5	5733.8	6170.4	6629.6	7335.0	7553.9	7204.2	7898.9	8292.7	9217.0	6687.9
60°	4544.3	4540.7	5166.4	5990.8	6956.8	7735.9	8141.6	8497.3	8662.6	9460.8	7068.6
62.5°	2511.2	2533.8	3366.6	4452.7	5905.1	7264.9	8844.6	9531.0	9506.1	9886.7	7664.6
65°	1250.3	1295.5	1747.5	2550.5	3929.2	6003.9	8966.0	11108.4	11037.1	10889.6	8895.8
67.5°	793.5	811.3	1061.1	1482.2	2184.1	3859.0	8210.6	12284.9	12450.3	12079.1	10117.5
70°	513.9	543.6	737.5	1013.5	1318.1	1989.0	6014.6	11522.4	11901.9	11948.3	9356.2
72.5°	279.6	301.0	471.1	723.3	951.7	994.5	3378.4	8647.2	9257.4	10135.3	7319.6
75°	159.4	174.9	258.1	491.3	698.3	605.5	1497.7	5788.6	6177.6	7243.4	5244.9
77.5°	96.4	109.4	145.1	239.1	437.8	404.5	566.2	3523.6	3771.0	4321.8	2752.7
80°	44.0	52.3	91.6	132.0	239.1	191.5	216.5	1642.8	1696.4	1773.7	911.2
82.5°	20.2	23.8	41.6	78.5	135.6	110.6	83.3	379.5	534.1	505.6	232.0
85°	2.4	2.4	15.5	32.1	38.1	28.6	34.5	85.7	108.3	152.3	66.6
87.5°	0.0	0.0	1.2	1.2	2.4	3.6	7.1	10.7	15.5	25.0	16.7
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°	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5	1446.5
2.5°	1469.1	1435.8	1406.1	1362.1	1332.3	1299.0	1276.4	1249.1	1238.4	1230.0	1218.1
5°	1502.5	1448.9	1376.4	1295.5	1228.9	1165.8	1107.5	1069.4	1036.1	1031.4	1014.7
7.5°	1557.2	1477.5	1354.9	1222.9	1109.9	1005.2	923.1	856.5	823.2	812.5	793.5
10°	1629.7	1520.3	1322.8	1120.6	957.6	832.7	739.9	665.0	612.6	593.6	579.3
12.5°	1710.6	1559.6	1271.7	994.5	808.9	666.2	548.4	468.7	435.4	423.5	412.8
15°	1803.4	1596.4	1190.8	868.4	663.8	490.1	406.8	372.3	358.1	354.5	350.9
17.5°	1892.6	1620.2	1094.4	737.5	510.3	380.7	341.4	328.3	324.8	321.2	318.8
20°	1993.8	1636.9	981.4	613.8	396.1	322.4	303.3	293.8	286.7	279.6	278.4
22.5°	2097.3	1636.9	858.9	492.5	331.9	289.1	267.7	249.8	236.7	229.6	227.2
25°	2196.0	1614.3	737.5	393.8	292.6	257.0	229.6	209.4	191.5	183.2	180.8
27.5°	2266.2	1556.0	631.7	333.1	265.3	228.4	195.1	172.5	158.2	149.9	148.7
30°	2310.2	1469.1	534.1	297.4	241.5	198.7	165.4	146.3	135.6	129.7	127.3
32.5°	2343.5	1362.1	447.3	272.4	218.9	172.5	143.9	128.5	119.0	114.2	113.0
35°	2410.1	1261.0	383.0	249.8	195.1	151.1	126.1	114.2	107.1	101.1	99.9
37.5°	2502.9	1176.5	331.9	229.6	172.5	134.4	114.2	103.5	97.5	91.6	90.4
40°	2639.7	1123.0	293.8	209.4	152.3	121.3	104.7	95.2	86.8	80.9	79.7
42.5°	2850.3	1098.0	268.8	189.1	134.4	109.4	96.4	84.5	76.1	70.2	69.0
45°	3101.3	1111.1	247.4	168.9	122.5	101.1	85.7	73.8	65.4	59.5	58.3
47.5°	3370.1	1157.5	229.6	149.9	110.6	92.8	76.1	63.0	55.9	50.0	48.8
50°	3650.9	1233.6	214.1	132.0	101.1	83.3	65.4	54.7	47.6	42.8	41.6
52.5°	3894.7	1337.1	198.7	119.0	92.8	73.8	57.1	47.6	40.4	35.7	34.5
55°	4127.9	1434.7	186.8	107.1	83.3	64.2	50.0	40.4	34.5	29.7	28.6
57.5°	4381.3	1538.1	172.5	96.4	74.9	57.1	44.0	34.5	29.7	25.0	23.8
60°	4750.1	1691.6	151.1	88.0	65.4	50.0	38.1	30.9	26.2	20.2	19.0
62.5°	5281.8	1971.2	127.3	76.1	55.9	42.8	32.1	26.2	21.4	16.7	14.3
65°	6276.3	2447.0	104.7	63.0	45.2	35.7	27.4	21.4	16.7	11.9	10.7
67.5°	6992.4	2570.7	84.5	51.2	36.9	27.4	22.6	16.7	11.9	8.3	7.1
70°	6113.3	1846.3	65.4	41.6	30.9	21.4	17.8	13.1	8.3	5.9	4.8
72.5°	4606.1	1206.2	48.8	32.1	23.8	17.8	13.1	10.7	7.1	4.8	3.6
75°	3246.4	697.1	35.7	23.8	16.7	13.1	10.7	8.3	5.9	3.6	3.6
77.5°	1664.2	287.9	25.0	16.7	11.9	8.3	7.1	4.8	4.8	3.6	2.4
80°	505.6	95.2	14.3	10.7	8.3	5.9	3.6	3.6	3.6	2.4	1.2
82.5°	115.4	30.9	8.3	8.3	5.9	4.8	3.6	1.2	1.2	0.0	0.0
85°	29.7	9.5	7.1	5.9	5.9	4.8	2.4	1.2	0.0	0.0	0.0
87.5°	10.7	5.9	5.9	5.9	4.8	3.6	2.4	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)