

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: P633925

Luminaire Tested: GWS-SA2F-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633925
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12259.8 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

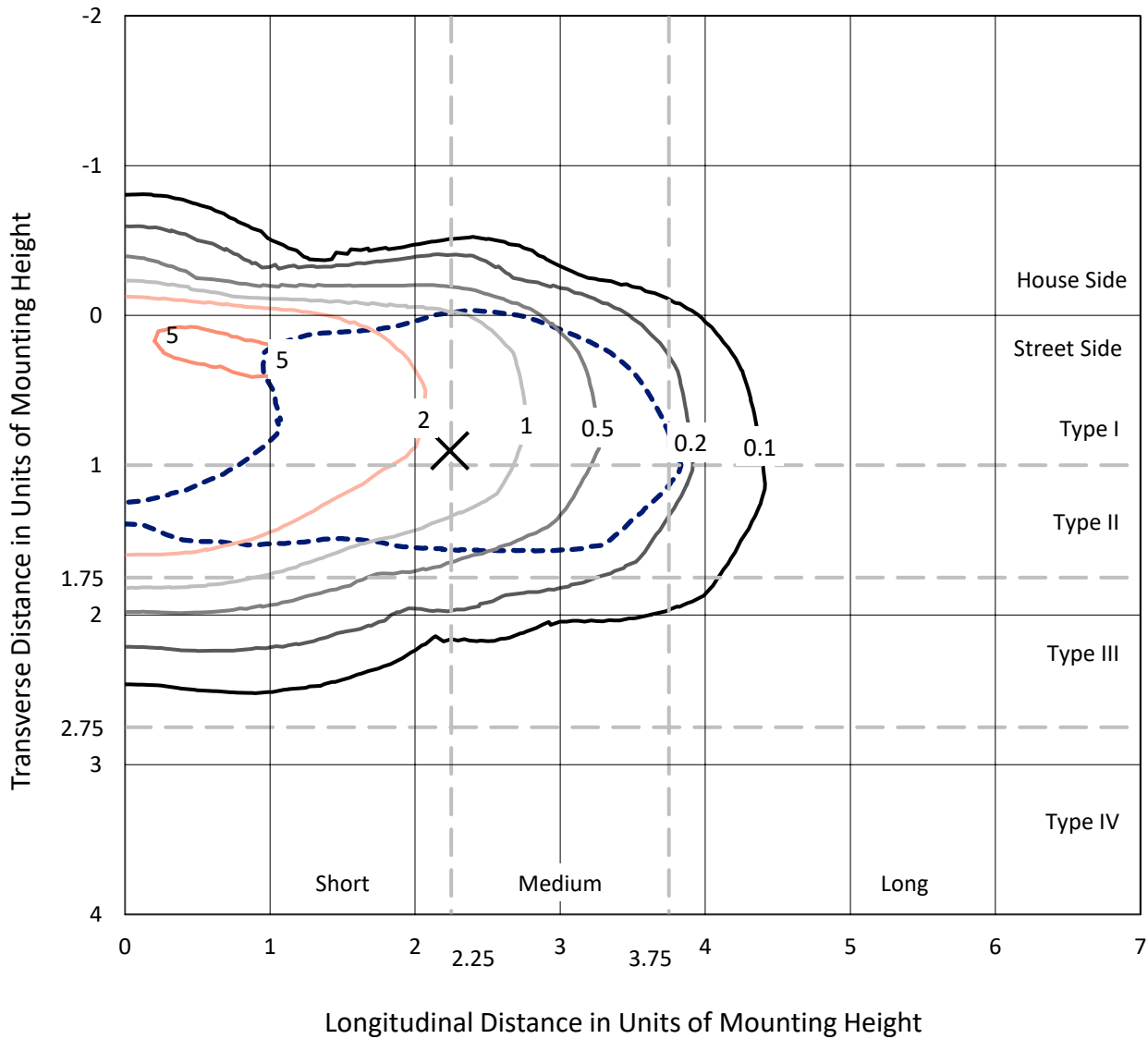
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

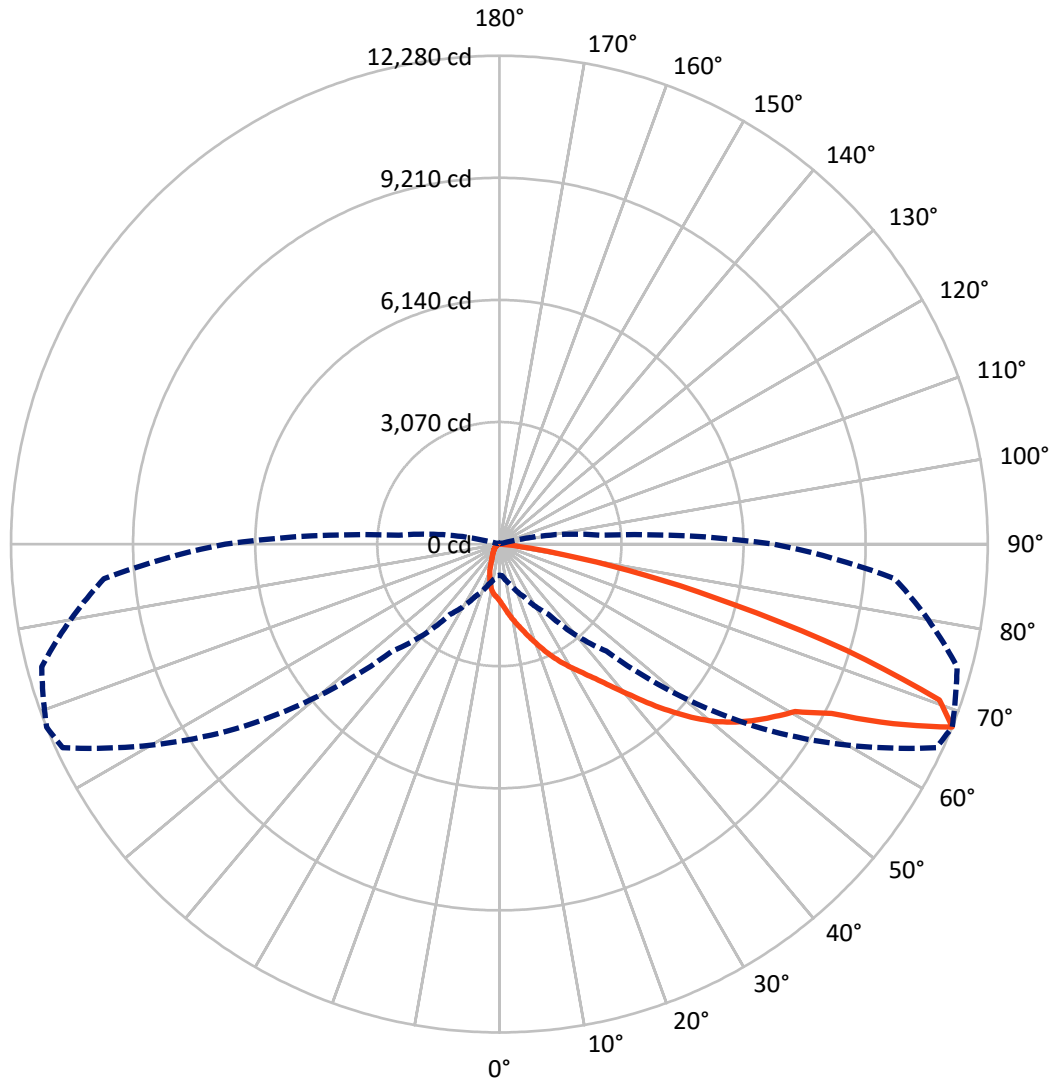
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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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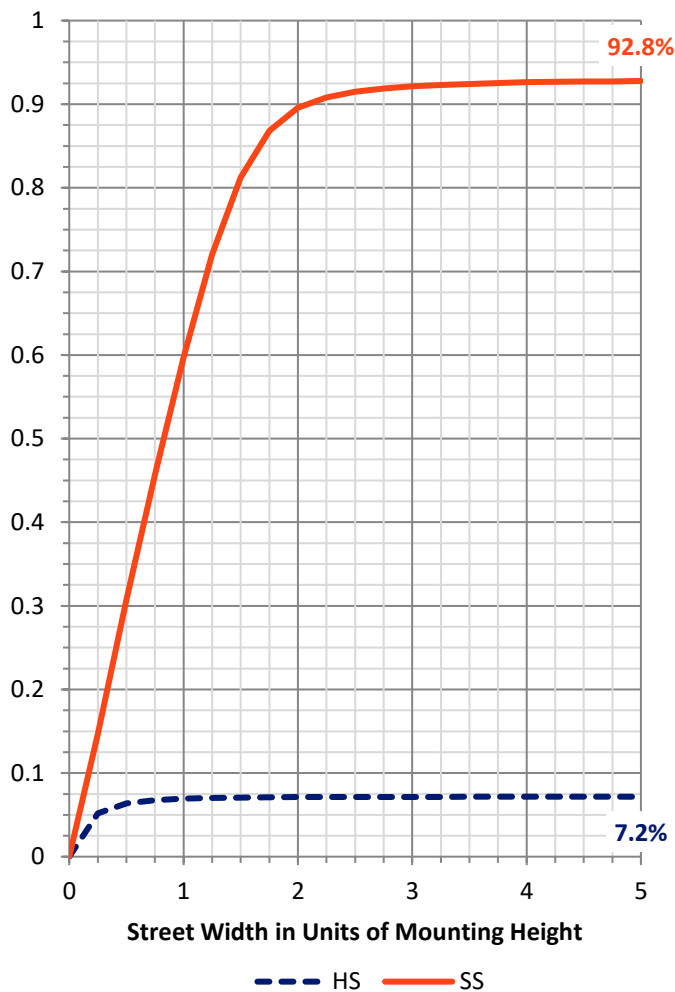
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.3	0.0	885.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11374.5	0.0	11374.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	12259.8	0.0	12259.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.1
10°-20°	399.6	3.3
20°-30°	686.7	5.6
30°-40°	1193.9	9.7
40°-50°	2083.3	17.0
50°-60°	3142.1	25.6
60°-70°	3150.7	25.7
70°-80°	1390.1	11.3
80°-90°	74.3	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°	12259.8	100.0
0°-180°	12259.8	100.0

Coefficient of Utilization



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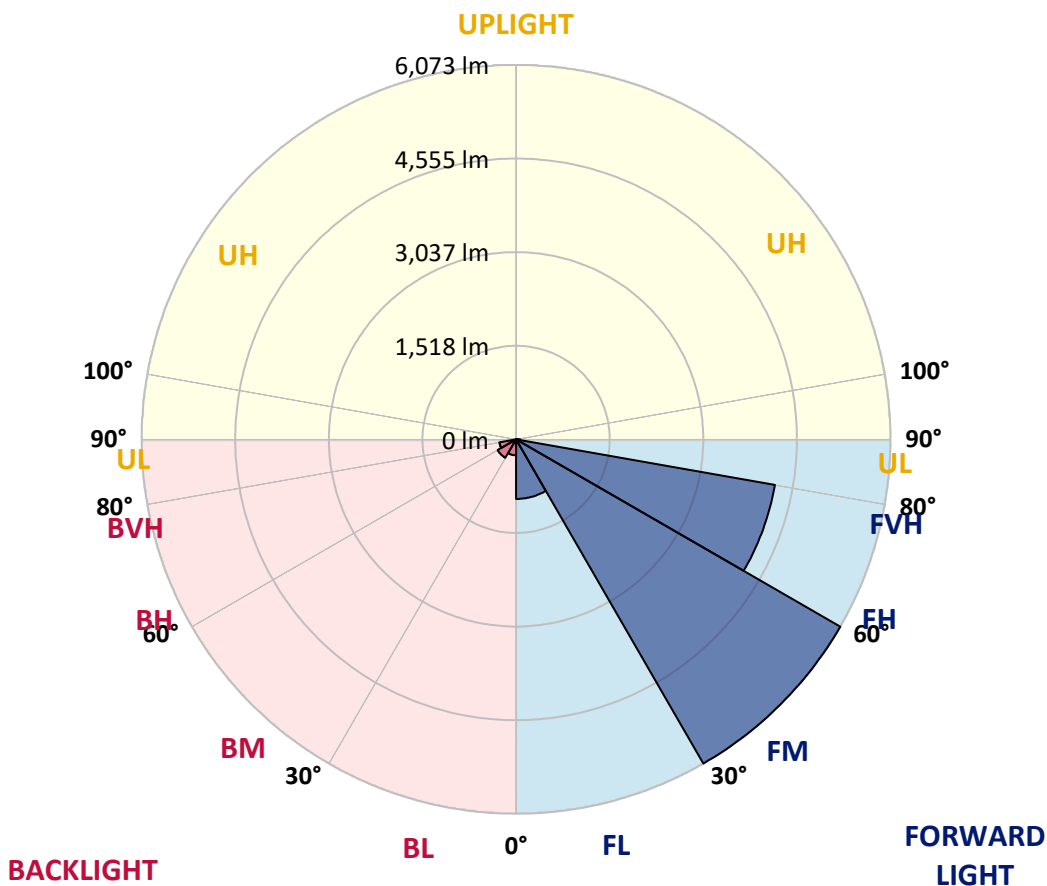
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.4	7.9			
FM (30°-60°)	6073.5	49.5			
FH (60°-80°)	4264.5	34.8			G2/5000
FVH (80°-90°)	70.1	0.6			G1/100
BL (0°-30°)	259.0	2.1	B1/500		
BM (30°-60°)	345.8	2.8	B1/1000		
BH (60°-80°)	276.3	2.3	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7
2.5°	1661.4	1671.9	1661.4	1663.7	1633.2	1619.1	1588.6	1546.4	1535.8	1508.9	1467.8
5°	1864.4	1873.8	1863.2	1860.8	1825.6	1799.8	1749.4	1676.6	1655.5	1602.7	1521.8
7.5°	1974.7	1980.5	1984.0	1989.9	1977.0	1955.9	1910.1	1819.8	1797.5	1711.8	1598.0
10°	1986.4	1991.1	2008.7	2043.9	2069.7	2082.6	2056.8	1973.5	1938.3	1855.0	1691.9
12.5°	1953.5	1960.6	1988.7	2047.4	2119.0	2184.7	2201.1	2128.4	2096.7	1989.9	1802.2
15°	1910.1	1916.0	1954.7	2034.5	2142.4	2263.3	2331.3	2299.7	2264.5	2153.0	1924.2
17.5°	1843.2	1851.5	1905.4	2013.4	2153.0	2325.5	2472.1	2482.7	2458.1	2337.2	2059.1
20°	1805.7	1811.6	1859.7	1971.1	2146.0	2371.2	2603.5	2703.3	2676.3	2549.6	2214.0
22.5°	1837.4	1842.1	1873.8	1960.6	2122.5	2397.0	2725.6	2923.9	2908.6	2777.2	2377.1
25°	2004.0	2019.2	2000.5	2015.7	2133.1	2411.1	2824.1	3144.4	3148.0	3015.4	2546.1
27.5°	2341.9	2322.0	2277.4	2201.1	2215.2	2448.7	2908.6	3352.1	3382.6	3247.7	2696.2
30°	2685.7	2673.9	2647.0	2528.5	2429.9	2532.0	2980.2	3564.5	3612.6	3476.5	2830.0
32.5°	3071.7	3083.4	3035.3	2893.4	2725.6	2700.9	3054.1	3766.3	3856.6	3735.8	2987.2
35°	3532.8	3536.3	3441.3	3284.1	3094.0	2980.2	3186.7	3989.2	4155.8	4066.6	3197.2
37.5°	3982.2	4003.3	3951.7	3704.1	3535.1	3327.5	3406.1	4275.5	4510.2	4475.0	3461.2
40°	4379.9	4412.8	4396.3	4157.0	3935.2	3760.4	3746.3	4611.1	4938.4	4978.3	3809.7
42.5°	4696.7	4717.8	4730.7	4560.6	4364.7	4266.1	4166.4	5000.6	5444.1	5607.2	4236.8
45°	5031.1	5038.1	5065.1	4950.1	4778.8	4787.1	4662.7	5473.4	5976.8	6304.1	4727.2
47.5°	5457.0	5480.5	5467.6	5346.7	5191.8	5284.5	5175.4	5960.3	6502.4	7048.0	5229.4
50°	5975.6	6000.2	5988.5	5847.7	5675.2	5714.0	5645.9	6433.2	7009.3	7749.6	5647.1
52.5°	6243.1	6263.1	6408.5	6471.9	6381.6	6135.2	6047.2	6953.0	7437.5	8326.9	6030.7
55°	6114.0	6128.1	6444.9	6712.4	7043.3	6796.9	6450.8	7354.2	7815.3	8777.4	6315.9
57.5°	5579.0	5655.3	6085.9	6538.8	7234.5	7450.4	7105.5	7790.7	8179.1	9090.7	6596.3
60°	4482.0	4478.5	5095.6	5908.7	6861.4	7629.9	8030.0	8380.9	8543.9	9331.2	6971.7
62.5°	2476.8	2499.1	3320.4	4391.7	5824.2	7165.3	8723.5	9400.5	9375.8	9751.3	7559.6
65°	1233.1	1277.7	1723.6	2515.5	3875.4	5921.6	8843.1	10956.2	10885.8	10740.4	8773.9
67.5°	782.6	800.2	1046.6	1461.9	2154.2	3806.2	8098.1	12116.6	12279.7	11913.7	9978.9
70°	506.9	536.2	727.4	999.6	1300.0	1961.8	5932.2	11364.6	11738.8	11784.6	9228.0
72.5°	275.7	296.8	464.6	713.4	938.6	980.9	3332.2	8528.7	9130.6	9996.5	7219.3
75°	157.2	172.5	254.6	484.6	688.7	597.2	1477.2	5709.3	6092.9	7144.2	5173.1
77.5°	95.0	107.9	143.1	235.8	431.8	398.9	558.5	3475.3	3719.4	4262.6	2715.0
80°	43.4	51.6	90.3	130.2	235.8	188.9	213.5	1620.3	1673.1	1749.4	898.7
82.5°	19.9	23.5	41.1	77.4	133.8	109.1	82.1	374.3	526.8	498.7	228.8
85°	2.3	2.3	15.3	31.7	37.5	28.2	34.0	84.5	106.8	150.2	65.7
87.5°	0.0	0.0	1.2	1.2	2.3	3.5	7.0	10.6	15.3	24.6	16.4
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°	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7	1426.7
2.5°	1449.0	1416.2	1386.8	1343.4	1314.1	1281.2	1258.9	1232.0	1221.4	1213.2	1201.5
5°	1481.9	1429.1	1357.5	1277.7	1212.0	1149.8	1092.3	1054.8	1021.9	1017.2	1000.8
7.5°	1535.8	1457.2	1336.4	1206.1	1094.7	991.4	910.5	844.8	811.9	801.4	782.6
10°	1607.4	1499.5	1304.7	1105.2	944.5	821.3	729.8	655.9	604.2	585.5	571.4
12.5°	1687.2	1538.2	1254.3	980.9	797.8	657.0	540.9	462.3	429.4	417.7	407.1
15°	1778.7	1574.6	1174.5	856.5	654.7	483.4	401.3	367.2	353.2	349.6	346.1
17.5°	1866.7	1598.0	1079.4	727.4	503.3	375.5	336.7	323.8	320.3	316.8	314.4
20°	1966.4	1614.5	968.0	605.4	390.7	318.0	299.2	289.8	282.8	275.7	274.6
22.5°	2068.5	1614.5	847.1	485.7	327.3	285.1	264.0	246.4	233.5	226.4	224.1
25°	2165.9	1592.2	727.4	388.4	288.6	253.4	226.4	206.5	188.9	180.7	178.3
27.5°	2235.1	1534.7	623.0	328.5	261.6	225.3	192.4	170.1	156.0	147.8	146.7
30°	2278.5	1449.0	526.8	293.3	238.2	195.9	163.1	144.3	133.8	127.9	125.5
32.5°	2311.4	1343.4	441.2	268.7	215.9	170.1	142.0	126.7	117.3	112.6	111.5
35°	2377.1	1243.7	377.8	246.4	192.4	149.0	124.4	112.6	105.6	99.7	98.6
37.5°	2468.6	1160.4	327.3	226.4	170.1	132.6	112.6	102.1	96.2	90.3	89.2
40°	2603.5	1107.6	289.8	206.5	150.2	119.7	103.3	93.9	85.7	79.8	78.6
42.5°	2811.2	1083.0	265.2	186.6	132.6	107.9	95.0	83.3	75.1	69.2	68.1
45°	3058.8	1095.9	244.0	166.6	120.8	99.7	84.5	72.7	64.5	58.7	57.5
47.5°	3324.0	1141.6	226.4	147.8	109.1	91.5	75.1	62.2	55.1	49.3	48.1
50°	3600.8	1216.7	211.2	130.2	99.7	82.1	64.5	54.0	46.9	42.2	41.1
52.5°	3841.4	1318.8	195.9	117.3	91.5	72.7	56.3	46.9	39.9	35.2	34.0
55°	4071.3	1415.0	184.2	105.6	82.1	63.4	49.3	39.9	34.0	29.3	28.2
57.5°	4321.3	1517.1	170.1	95.0	73.9	56.3	43.4	34.0	29.3	24.6	23.5
60°	4685.0	1668.4	149.0	86.8	64.5	49.3	37.5	30.5	25.8	19.9	18.8
62.5°	5209.4	1944.2	125.5	75.1	55.1	42.2	31.7	25.8	21.1	16.4	14.1
65°	6190.3	2413.5	103.3	62.2	44.6	35.2	27.0	21.1	16.4	11.7	10.6
67.5°	6896.6	2535.5	83.3	50.5	36.4	27.0	22.3	16.4	11.7	8.2	7.0
70°	6029.6	1821.0	64.5	41.1	30.5	21.1	17.6	12.9	8.2	5.9	4.7
72.5°	4543.0	1189.7	48.1	31.7	23.5	17.6	12.9	10.6	7.0	4.7	3.5
75°	3201.9	687.6	35.2	23.5	16.4	12.9	10.6	8.2	5.9	3.5	3.5
77.5°	1641.4	283.9	24.6	16.4	11.7	8.2	7.0	4.7	4.7	3.5	2.3
80°	498.7	93.9	14.1	10.6	8.2	5.9	3.5	3.5	3.5	2.3	1.2
82.5°	113.8	30.5	8.2	8.2	5.9	4.7	3.5	1.2	1.2	0.0	0.0
85°	29.3	9.4	7.0	5.9	5.9	4.7	2.3	1.2	0.0	0.0	0.0
87.5°	10.6	5.9	5.9	5.9	4.7	3.5	2.3	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)