

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: P633760

Luminaire Tested: GWS-SA2F-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633760
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11985.1 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

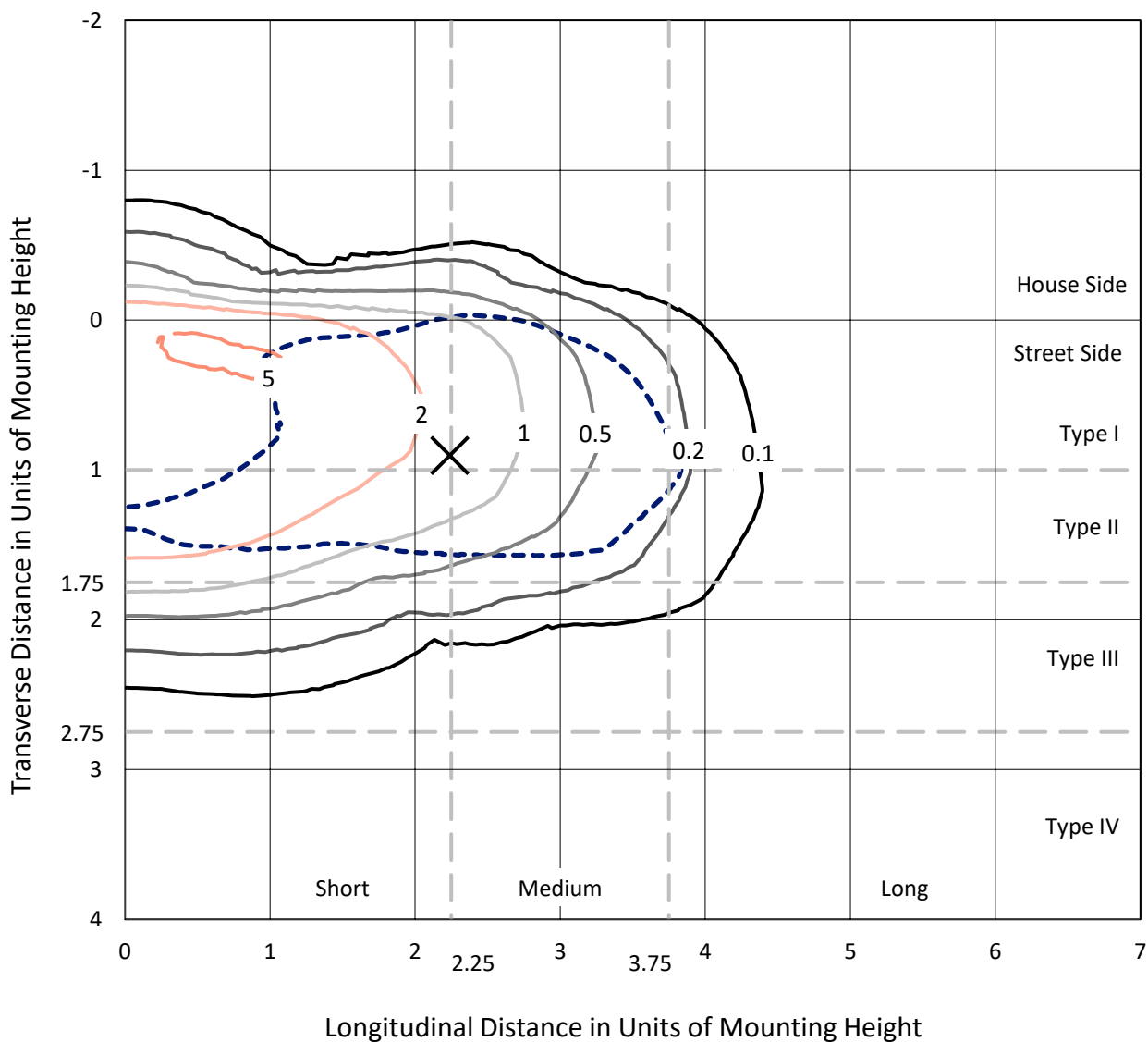
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

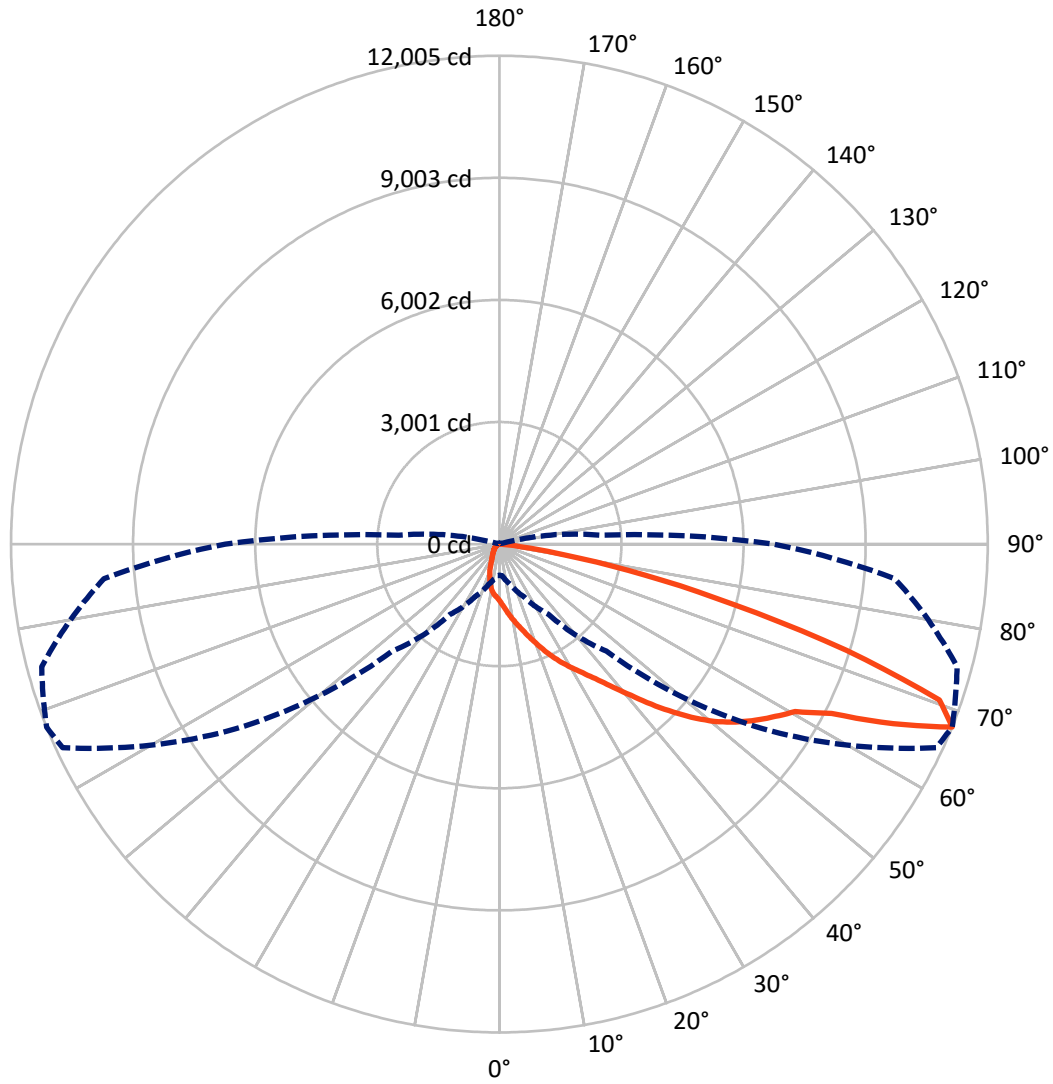
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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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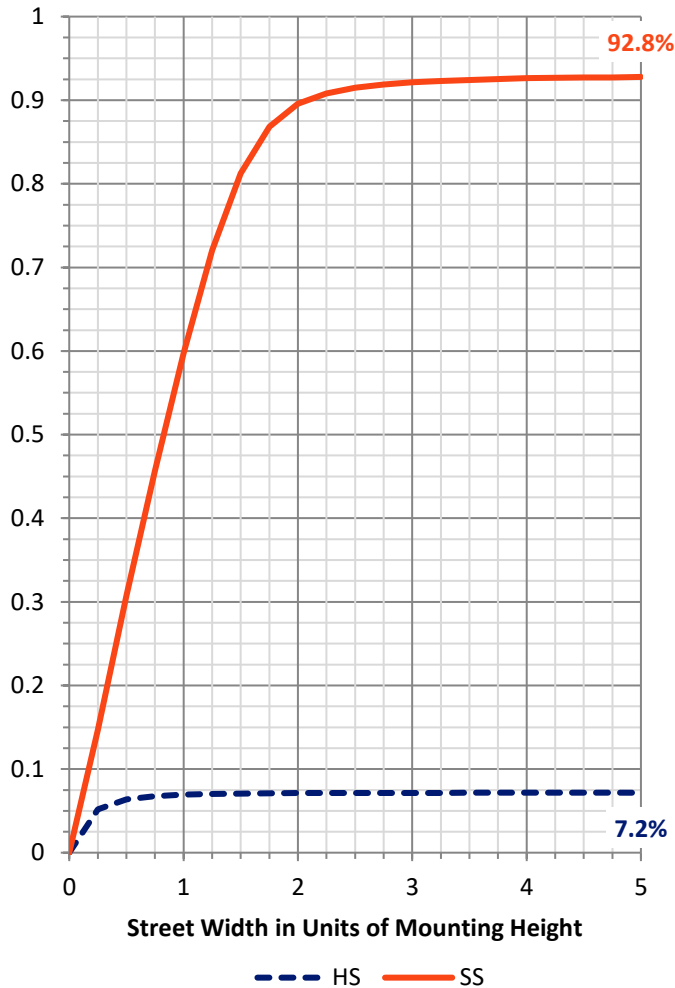
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.5	0.0	865.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11119.6	0.0	11119.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	11985.1	0.0	11985.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.1
10°-20°	390.6	3.3
20°-30°	671.3	5.6
30°-40°	1167.2	9.7
40°-50°	2036.6	17.0
50°-60°	3071.7	25.6
60°-70°	3080.1	25.7
70°-80°	1358.9	11.3
80°-90°	72.6	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°	11985.1	100.0
0°-180°	11985.1	100.0

Coefficient of Utilization



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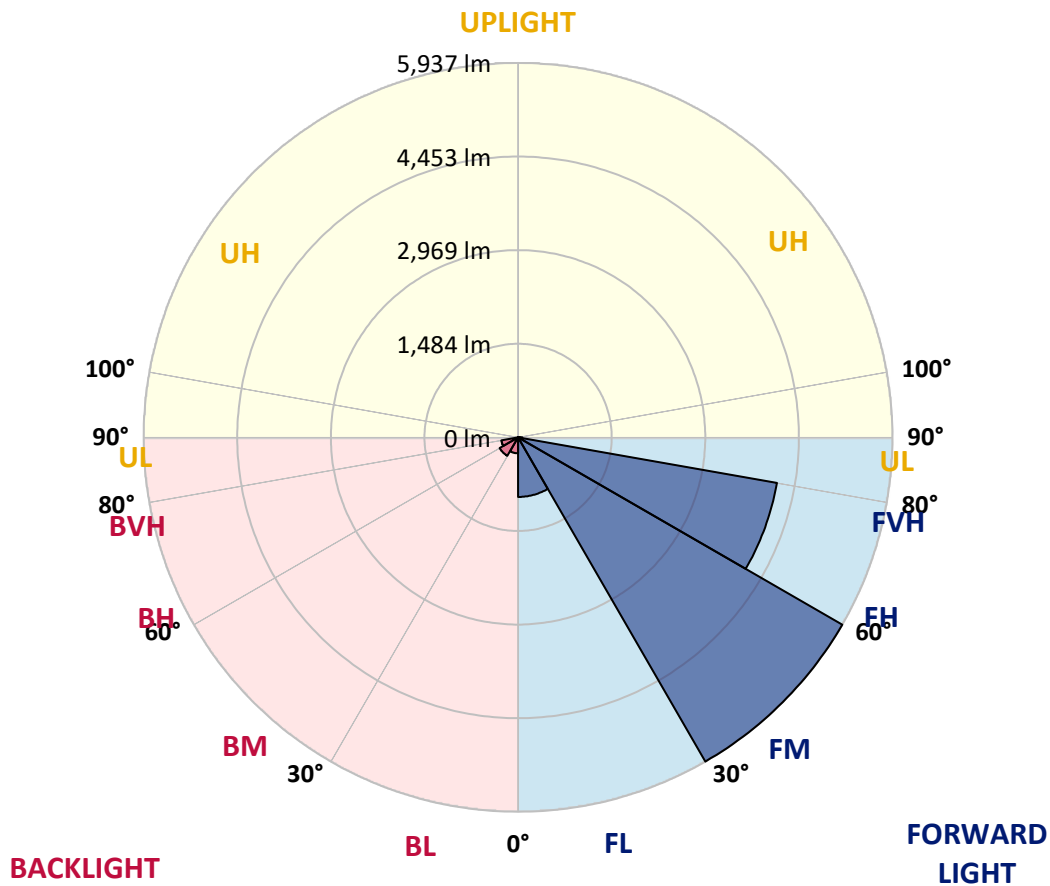
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.8	7.9			
FM (30°-60°)	5937.4	49.5			
FH (60°-80°)	4169.0	34.8			G2/5000
FVH (80°-90°)	68.5	0.6			G1/100
BL (0°-30°)	253.2	2.1	B1/500		
BM (30°-60°)	338.1	2.8	B1/1000		
BH (60°-80°)	270.1	2.3	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1624.2	1634.5	1624.2	1626.5	1596.6	1582.9	1553.0	1511.8	1501.4	1475.1	1434.9
5°	1822.6	1831.8	1821.4	1819.2	1784.7	1759.5	1710.2	1639.1	1618.4	1566.8	1487.7
7.5°	1930.4	1936.1	1939.6	1945.3	1932.7	1912.1	1867.3	1779.0	1757.2	1673.5	1562.2
10°	1941.9	1946.5	1963.7	1998.1	2023.3	2035.9	2010.7	1929.3	1894.9	1813.4	1654.0
12.5°	1909.8	1916.6	1944.2	2001.5	2071.5	2135.7	2151.8	2080.7	2049.7	1945.3	1761.8
15°	1867.3	1873.1	1910.9	1988.9	2094.4	2212.6	2279.1	2248.1	2213.7	2104.8	1881.1
17.5°	1801.9	1810.0	1862.7	1968.3	2104.8	2273.4	2416.7	2427.1	2403.0	2284.8	2013.0
20°	1765.2	1771.0	1818.0	1927.0	2097.9	2318.1	2545.2	2642.7	2616.3	2492.4	2164.4
22.5°	1796.2	1800.8	1831.8	1916.6	2074.9	2343.3	2664.5	2858.3	2843.4	2715.0	2323.8
25°	1959.1	1974.0	1955.6	1970.6	2085.3	2357.1	2760.8	3074.0	3077.4	2947.8	2489.0
27.5°	2289.4	2269.9	2226.3	2151.8	2165.5	2393.8	2843.4	3277.0	3306.8	3174.9	2635.8
30°	2625.5	2614.0	2587.6	2471.8	2375.5	2475.2	2913.4	3484.6	3531.6	3398.6	2766.6
32.5°	3002.9	3014.3	2967.3	2828.5	2664.5	2640.4	2985.7	3681.9	3770.2	3652.1	2920.3
35°	3453.6	3457.1	3364.2	3210.5	3024.7	2913.4	3115.3	3899.8	4062.7	3975.5	3125.6
37.5°	3892.9	3913.6	3863.1	3621.1	3455.9	3252.9	3329.8	4179.7	4409.1	4374.7	3383.7
40°	4281.8	4313.9	4297.8	4063.8	3847.1	3676.2	3662.4	4507.7	4827.8	4866.8	3724.3
42.5°	4591.5	4612.1	4624.7	4458.4	4266.9	4170.5	4073.0	4888.5	5322.1	5481.5	4141.8
45°	4918.4	4925.2	4951.6	4839.2	4671.8	4679.8	4558.2	5350.8	5842.9	6162.9	4621.3
47.5°	5334.7	5357.7	5345.1	5226.9	5075.5	5166.1	5059.4	5826.8	6356.7	6890.1	5112.2
50°	5841.7	5865.8	5854.3	5716.7	5548.1	5585.9	5519.4	6289.0	6852.2	7576.0	5520.5
52.5°	6103.2	6122.7	6265.0	6326.9	6238.6	5997.7	5911.7	6797.2	7270.9	8140.3	5895.6
55°	5977.1	5990.8	6300.5	6562.0	6885.5	6644.6	6306.2	7189.4	7640.2	8580.8	6174.3
57.5°	5454.0	5528.6	5949.5	6392.3	7072.4	7283.5	6946.3	7616.1	7995.8	8887.0	6448.5
60°	4381.6	4378.1	4981.5	5776.3	6707.7	7459.0	7850.1	8193.1	8352.5	9122.1	6815.5
62.5°	2421.3	2443.1	3246.0	4293.2	5693.7	7004.8	8528.0	9189.8	9165.7	9532.8	7390.2
65°	1205.5	1249.1	1685.0	2459.2	3788.6	5788.9	8645.0	10710.8	10641.9	10499.7	8577.3
67.5°	765.1	782.3	1023.1	1429.2	2105.9	3720.9	7916.6	11845.1	12004.6	11646.7	9755.3
70°	495.5	524.2	711.1	977.3	1270.9	1917.8	5799.3	11109.9	11475.8	11520.5	9021.2
72.5°	269.5	290.2	454.2	697.4	917.6	958.9	3257.5	8337.6	8926.0	9772.5	7057.5
75°	153.7	168.6	248.9	473.7	673.3	583.8	1444.1	5581.3	5956.4	6984.1	5057.2
77.5°	92.9	105.5	139.9	230.5	422.1	390.0	546.0	3397.4	3636.0	4167.1	2654.2
80°	42.4	50.5	88.3	127.3	230.5	184.7	208.8	1584.0	1635.6	1710.2	878.6
82.5°	19.5	22.9	40.1	75.7	130.8	106.7	80.3	365.9	515.0	487.5	223.7
85°	2.3	2.3	14.9	31.0	36.7	27.5	33.3	82.6	104.4	146.8	64.2
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	6.9	10.3	14.9	24.1	16.1
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°	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1416.6	1384.4	1355.8	1313.3	1284.6	1252.5	1230.7	1204.4	1194.0	1186.0	1174.5
5°	1448.7	1397.1	1327.1	1249.1	1184.9	1124.1	1067.9	1031.2	999.0	994.5	978.4
7.5°	1501.4	1424.6	1306.4	1179.1	1070.2	969.2	890.1	825.8	793.7	783.4	765.1
10°	1571.4	1465.9	1275.5	1080.5	923.3	802.9	713.4	641.2	590.7	572.4	558.6
12.5°	1649.4	1503.7	1226.2	958.9	780.0	642.3	528.8	451.9	419.8	408.3	398.0
15°	1738.9	1539.3	1148.2	837.3	640.0	472.6	392.3	359.0	345.2	341.8	338.4
17.5°	1824.9	1562.2	1055.2	711.1	492.1	367.0	329.2	316.6	313.1	309.7	307.4
20°	1922.4	1578.3	946.3	591.9	382.0	310.8	292.5	283.3	276.4	269.5	268.4
22.5°	2022.2	1578.3	828.1	474.9	320.0	278.7	258.1	240.9	228.3	221.4	219.1
25°	2117.4	1556.5	711.1	379.7	282.2	247.8	221.4	201.9	184.7	176.6	174.3
27.5°	2185.0	1500.3	609.1	321.2	255.8	220.2	188.1	166.3	152.6	144.5	143.4
30°	2227.5	1416.6	515.0	286.8	232.8	191.6	159.4	141.1	130.8	125.0	122.7
32.5°	2259.6	1313.3	431.3	262.7	211.0	166.3	138.8	123.9	114.7	110.1	109.0
35°	2323.8	1215.8	369.3	240.9	188.1	145.7	121.6	110.1	103.2	97.5	96.3
37.5°	2413.3	1134.4	320.0	221.4	166.3	129.6	110.1	99.8	94.1	88.3	87.2
40°	2545.2	1082.8	283.3	201.9	146.8	117.0	100.9	91.8	83.7	78.0	76.8
42.5°	2748.2	1058.7	259.2	182.4	129.6	105.5	92.9	81.4	73.4	67.7	66.5
45°	2990.2	1071.3	238.6	162.9	118.1	97.5	82.6	71.1	63.1	57.4	56.2
47.5°	3249.5	1116.0	221.4	144.5	106.7	89.5	73.4	60.8	53.9	48.2	47.0
50°	3520.2	1189.4	206.5	127.3	97.5	80.3	63.1	52.8	45.9	41.3	40.1
52.5°	3755.3	1289.2	191.6	114.7	89.5	71.1	55.1	45.9	39.0	34.4	33.3
55°	3980.1	1383.3	180.1	103.2	80.3	61.9	48.2	39.0	33.3	28.7	27.5
57.5°	4224.4	1483.1	166.3	92.9	72.3	55.1	42.4	33.3	28.7	24.1	22.9
60°	4580.0	1631.0	145.7	84.9	63.1	48.2	36.7	29.8	25.2	19.5	18.4
62.5°	5092.7	1900.6	122.7	73.4	53.9	41.3	31.0	25.2	20.6	16.1	13.8
65°	6051.6	2359.4	100.9	60.8	43.6	34.4	26.4	20.6	16.1	11.5	10.3
67.5°	6742.1	2478.7	81.4	49.3	35.6	26.4	21.8	16.1	11.5	8.0	6.9
70°	5894.5	1780.2	63.1	40.1	29.8	20.6	17.2	12.6	8.0	5.7	4.6
72.5°	4441.2	1163.1	47.0	31.0	22.9	17.2	12.6	10.3	6.9	4.6	3.4
75°	3130.2	672.1	34.4	22.9	16.1	12.6	10.3	8.0	5.7	3.4	3.4
77.5°	1604.7	277.6	24.1	16.1	11.5	8.0	6.9	4.6	4.6	3.4	2.3
80°	487.5	91.8	13.8	10.3	8.0	5.7	3.4	3.4	3.4	2.3	1.1
82.5°	111.3	29.8	8.0	8.0	5.7	4.6	3.4	1.1	1.1	0.0	0.0
85°	28.7	9.2	6.9	5.7	5.7	4.6	2.3	1.1	0.0	0.0	0.0
87.5°	10.3	5.7	5.7	5.7	4.6	3.4	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)