

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: P639535

Luminaire Tested: GWS-SA5C-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639535
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-SA5C-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13138.6 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

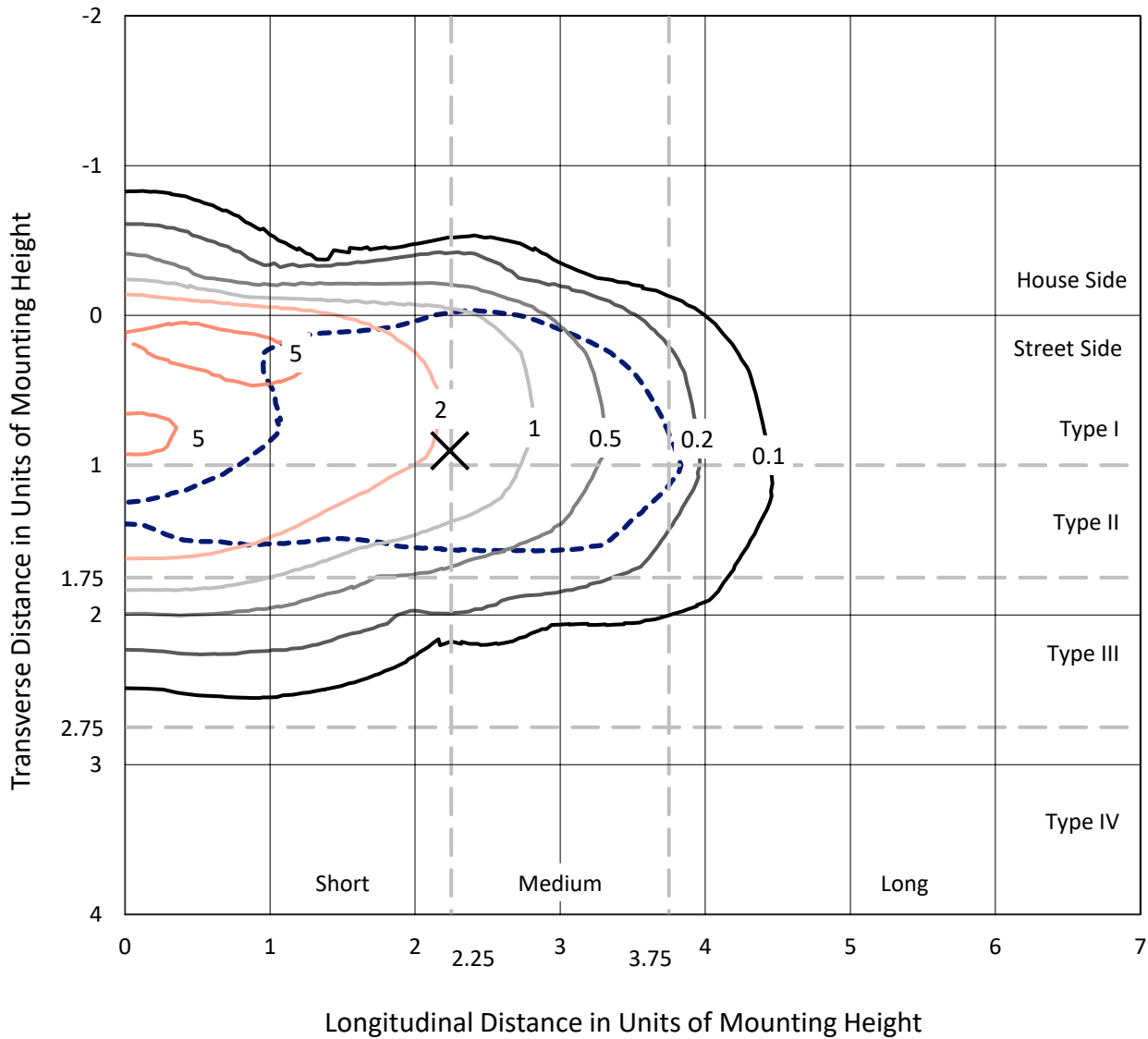
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

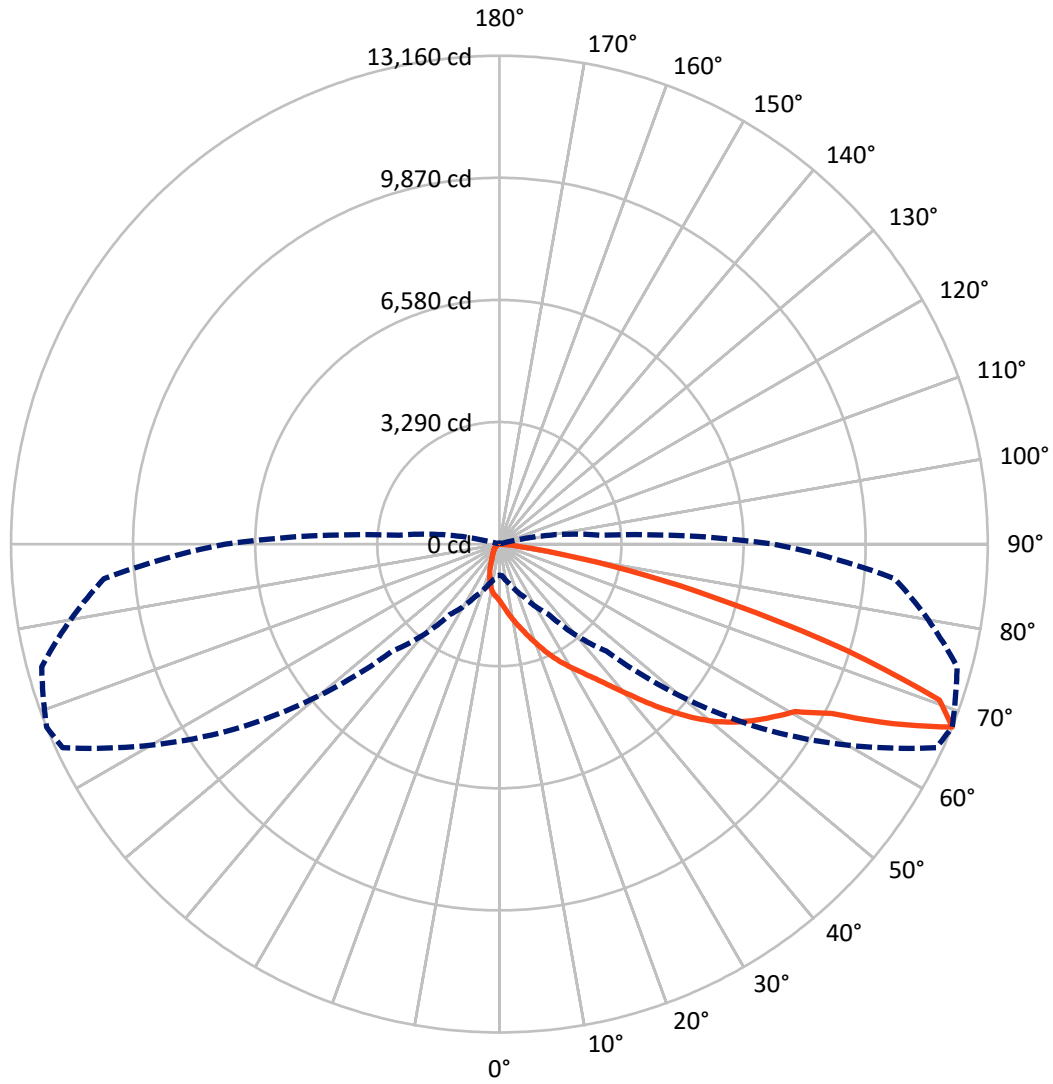
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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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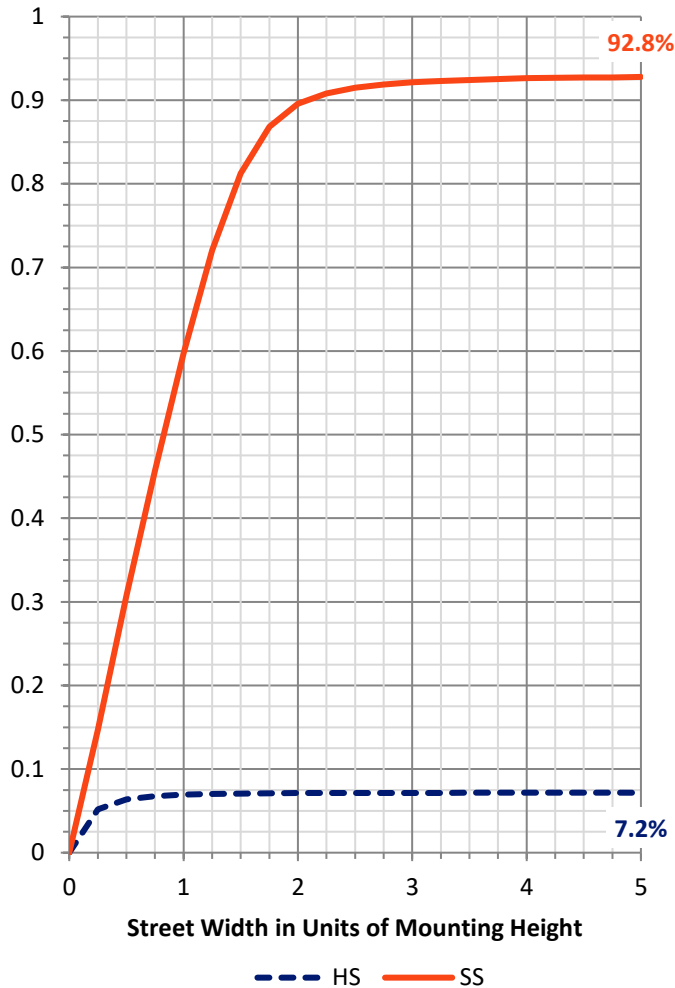
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.8	0.0	948.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12189.8	0.0	12189.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	13138.6	0.0	13138.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	1.1
10°-20°	428.2	3.3
20°-30°	735.9	5.6
30°-40°	1279.5	9.7
40°-50°	2232.6	17.0
50°-60°	3367.3	25.6
60°-70°	3376.6	25.7
70°-80°	1489.7	11.3
80°-90°	79.6	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°	13138.6	100.0
0°-180°	13138.6	100.0

Coefficient of Utilization



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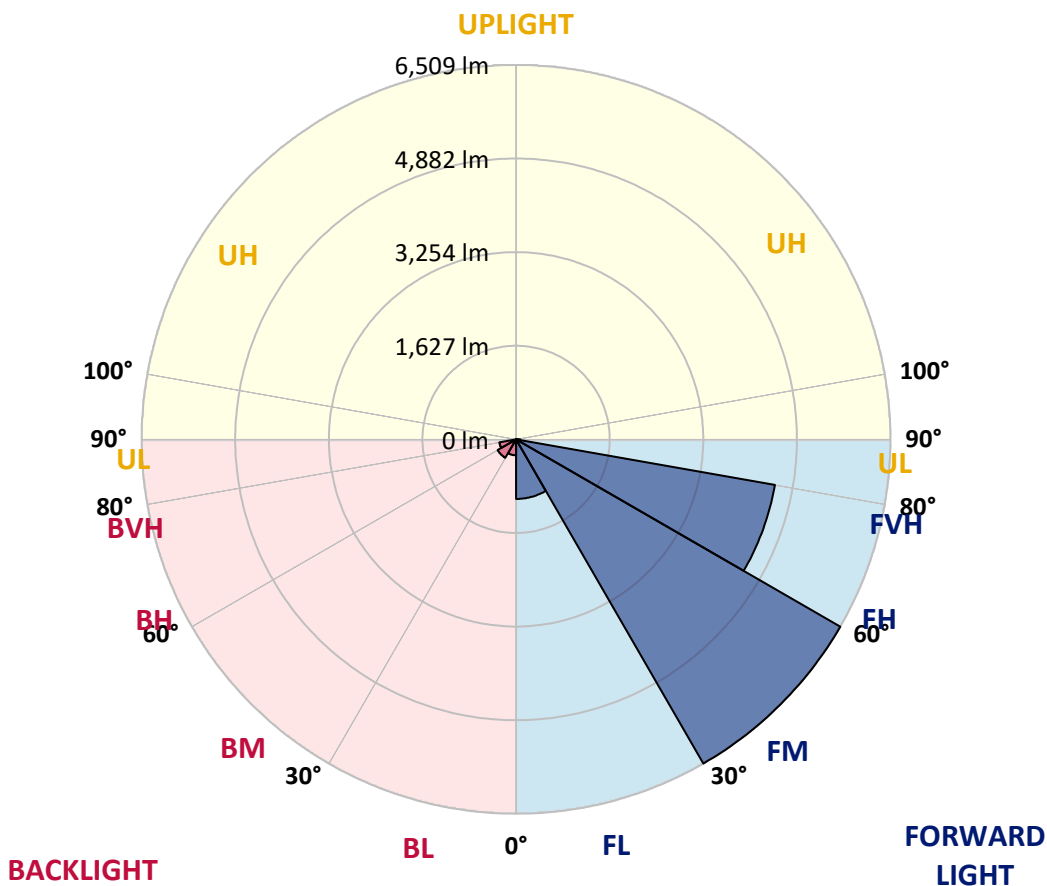
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.7	7.9			
FM (30°-60°)	6508.8	49.5			
FH (60°-80°)	4570.2	34.8			G2/5000
FVH (80°-90°)	75.1	0.6			G1/100
BL (0°-30°)	277.6	2.1	B1/500		
BM (30°-60°)	370.6	2.8	B1/1000		
BH (60°-80°)	296.1	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0
2.5°	1780.5	1791.8	1780.5	1783.0	1750.3	1735.2	1702.5	1657.3	1645.9	1617.0	1573.0
5°	1998.0	2008.1	1996.8	1994.2	1956.5	1928.9	1874.8	1796.8	1774.2	1717.6	1630.8
7.5°	2116.2	2122.5	2126.3	2132.6	2118.7	2096.1	2047.0	1950.2	1926.3	1834.5	1712.6
10°	2128.8	2133.8	2152.7	2190.4	2218.1	2231.9	2204.2	2114.9	2077.2	1988.0	1813.2
12.5°	2093.6	2101.1	2131.3	2194.2	2270.9	2341.3	2358.9	2280.9	2247.0	2132.6	1931.4
15°	2047.0	2053.3	2094.8	2180.3	2296.0	2425.5	2498.5	2464.5	2426.8	2307.3	2062.1
17.5°	1975.4	1984.2	2042.0	2157.7	2307.3	2492.2	2649.3	2660.7	2634.3	2504.7	2206.7
20°	1935.1	1941.4	1993.0	2112.4	2299.8	2541.2	2790.2	2897.1	2868.1	2732.3	2372.7
22.5°	1969.1	1974.1	2008.1	2101.1	2274.6	2568.9	2920.9	3133.4	3117.1	2976.3	2547.5
25°	2147.6	2164.0	2143.9	2160.2	2286.0	2584.0	3026.6	3369.8	3373.6	3231.5	2728.6
27.5°	2509.8	2488.4	2440.6	2358.9	2374.0	2624.2	3117.1	3592.4	3625.1	3480.5	2889.5
30°	2878.2	2865.6	2836.7	2709.7	2604.1	2713.5	3193.8	3820.0	3871.5	3725.7	3032.8
32.5°	3291.9	3304.4	3252.9	3100.7	2920.9	2894.5	3273.0	4036.3	4133.1	4003.6	3201.3
35°	3786.0	3789.8	3688.0	3519.5	3315.8	3193.8	3415.1	4275.2	4453.7	4358.2	3426.4
37.5°	4267.6	4290.3	4234.9	3969.6	3788.5	3566.0	3650.2	4582.0	4833.4	4795.7	3709.3
40°	4693.9	4729.1	4711.5	4455.0	4217.3	4030.0	4014.9	4941.6	5292.4	5335.2	4082.8
42.5°	5033.4	5056.0	5069.8	4887.5	4677.5	4571.9	4465.0	5359.0	5834.3	6009.1	4540.5
45°	5391.7	5399.3	5428.2	5305.0	5121.4	5130.2	4996.9	5865.8	6405.2	6756.0	5066.1
47.5°	5848.2	5873.3	5859.5	5730.0	5564.0	5663.3	5546.4	6387.6	6968.5	7553.2	5604.2
50°	6403.9	6430.3	6417.8	6266.9	6082.0	6123.5	6050.6	6894.3	7511.7	8305.1	6051.9
52.5°	6690.6	6712.0	6867.9	6935.8	6839.0	6574.9	6480.6	7451.4	7970.7	8923.8	6463.0
55°	6552.3	6567.4	6906.9	7193.6	7548.2	7284.1	6913.2	7881.4	8375.5	9406.6	6768.6
57.5°	5978.9	6060.7	6522.1	7007.5	7753.1	7984.5	7614.8	8349.1	8765.3	9742.3	7069.1
60°	4803.3	4799.5	5460.9	6332.3	7353.3	8176.9	8605.6	8981.6	9156.4	10000.1	7471.5
62.5°	2654.4	2678.3	3558.4	4706.4	6241.7	7678.9	9348.8	10074.3	10047.9	10450.3	8101.4
65°	1321.5	1369.3	1847.1	2695.9	4153.2	6346.1	9477.0	11741.6	11666.2	11510.2	9402.8
67.5°	838.7	857.5	1121.6	1566.7	2308.6	4079.0	8678.6	12985.2	13160.0	12767.6	10694.2
70°	543.2	574.6	779.6	1071.3	1393.2	2102.4	6357.4	12179.2	12580.3	12629.3	9889.5
72.5°	295.5	318.1	497.9	764.5	1005.9	1051.2	3571.0	9140.0	9785.1	10713.1	7736.8
75°	168.5	184.8	272.9	519.3	738.1	640.0	1583.1	6118.5	6529.7	7656.3	5543.9
77.5°	101.8	115.7	153.4	252.7	462.7	427.5	598.5	3724.4	3986.0	4568.1	2909.6
80°	46.5	55.3	96.8	139.6	252.7	202.4	228.8	1736.5	1793.1	1874.8	963.2
82.5°	21.4	25.1	44.0	83.0	143.3	116.9	88.0	401.1	564.6	534.4	245.2
85°	2.5	2.5	16.3	33.9	40.2	30.2	36.5	90.5	114.4	160.9	70.4
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	7.5	11.3	16.3	26.4	17.6
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°	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0	1529.0
2.5°	1552.9	1517.7	1486.2	1439.7	1408.3	1373.1	1349.2	1320.3	1309.0	1300.2	1287.6
5°	1588.1	1531.5	1454.8	1369.3	1298.9	1232.3	1170.6	1130.4	1095.2	1090.2	1072.6
7.5°	1645.9	1561.7	1432.2	1292.6	1173.2	1062.5	975.7	905.3	870.1	858.8	838.7
10°	1722.6	1607.0	1398.2	1184.5	1012.2	880.2	782.1	702.9	647.6	627.4	612.4
12.5°	1808.1	1648.5	1344.2	1051.2	855.0	704.1	579.7	495.4	460.2	447.6	436.3
15°	1906.2	1687.4	1258.7	917.9	701.6	518.0	430.0	393.6	378.5	374.7	370.9
17.5°	2000.5	1712.6	1156.8	779.6	539.4	402.4	360.9	347.0	343.3	339.5	337.0
20°	2107.4	1730.2	1037.4	648.8	418.7	340.8	320.6	310.6	303.0	295.5	294.2
22.5°	2216.8	1730.2	907.8	520.6	350.8	305.5	282.9	264.1	250.2	242.7	240.2
25°	2321.2	1706.3	779.6	416.2	309.3	271.6	242.7	221.3	202.4	193.6	191.1
27.5°	2395.3	1644.7	667.7	352.1	280.4	241.4	206.2	182.3	167.2	158.4	157.2
30°	2441.9	1552.9	564.6	314.4	255.3	210.0	174.8	154.7	143.3	137.1	134.5
32.5°	2477.1	1439.7	472.8	287.9	231.4	182.3	152.1	135.8	125.7	120.7	119.5
35°	2547.5	1332.8	404.9	264.1	206.2	159.7	133.3	120.7	113.2	106.9	105.6
37.5°	2645.6	1243.6	350.8	242.7	182.3	142.1	120.7	109.4	103.1	96.8	95.6
40°	2790.2	1187.0	310.6	221.3	160.9	128.3	110.7	100.6	91.8	85.5	84.2
42.5°	3012.7	1160.6	284.2	199.9	142.1	115.7	101.8	89.3	80.5	74.2	72.9
45°	3278.0	1174.4	261.5	178.6	129.5	106.9	90.5	78.0	69.2	62.9	61.6
47.5°	3562.2	1223.5	242.7	158.4	116.9	98.1	80.5	66.6	59.1	52.8	51.6
50°	3859.0	1303.9	226.3	139.6	106.9	88.0	69.2	57.8	50.3	45.3	44.0
52.5°	4116.7	1413.3	210.0	125.7	98.1	78.0	60.4	50.3	42.8	37.7	36.5
55°	4363.2	1516.4	197.4	113.2	88.0	67.9	52.8	42.8	36.5	31.4	30.2
57.5°	4631.0	1625.8	182.3	101.8	79.2	60.4	46.5	36.5	31.4	26.4	25.1
60°	5020.8	1788.0	159.7	93.0	69.2	52.8	40.2	32.7	27.7	21.4	20.1
62.5°	5582.9	2083.5	134.5	80.5	59.1	45.3	33.9	27.7	22.6	17.6	15.1
65°	6634.0	2586.5	110.7	66.6	47.8	37.7	28.9	22.6	17.6	12.6	11.3
67.5°	7391.0	2717.2	89.3	54.1	39.0	28.9	23.9	17.6	12.6	8.8	7.5
70°	6461.8	1951.5	69.2	44.0	32.7	22.6	18.9	13.8	8.8	6.3	5.0
72.5°	4868.7	1275.0	51.6	33.9	25.1	18.9	13.8	11.3	7.5	5.0	3.8
75°	3431.4	736.8	37.7	25.1	17.6	13.8	11.3	8.8	6.3	3.8	3.8
77.5°	1759.1	304.3	26.4	17.6	12.6	8.8	7.5	5.0	5.0	3.8	2.5
80°	534.4	100.6	15.1	11.3	8.8	6.3	3.8	3.8	3.8	2.5	1.3
82.5°	122.0	32.7	8.8	8.8	6.3	5.0	3.8	1.3	1.3	0.0	0.0
85°	31.4	10.1	7.5	6.3	6.3	5.0	2.5	1.3	0.0	0.0	0.0
87.5°	11.3	6.3	6.3	6.3	5.0	3.8	2.5	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)