

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: P632770

Luminaire Tested: GWS-SA2D-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632770
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-SA2D-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: 8626.2 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

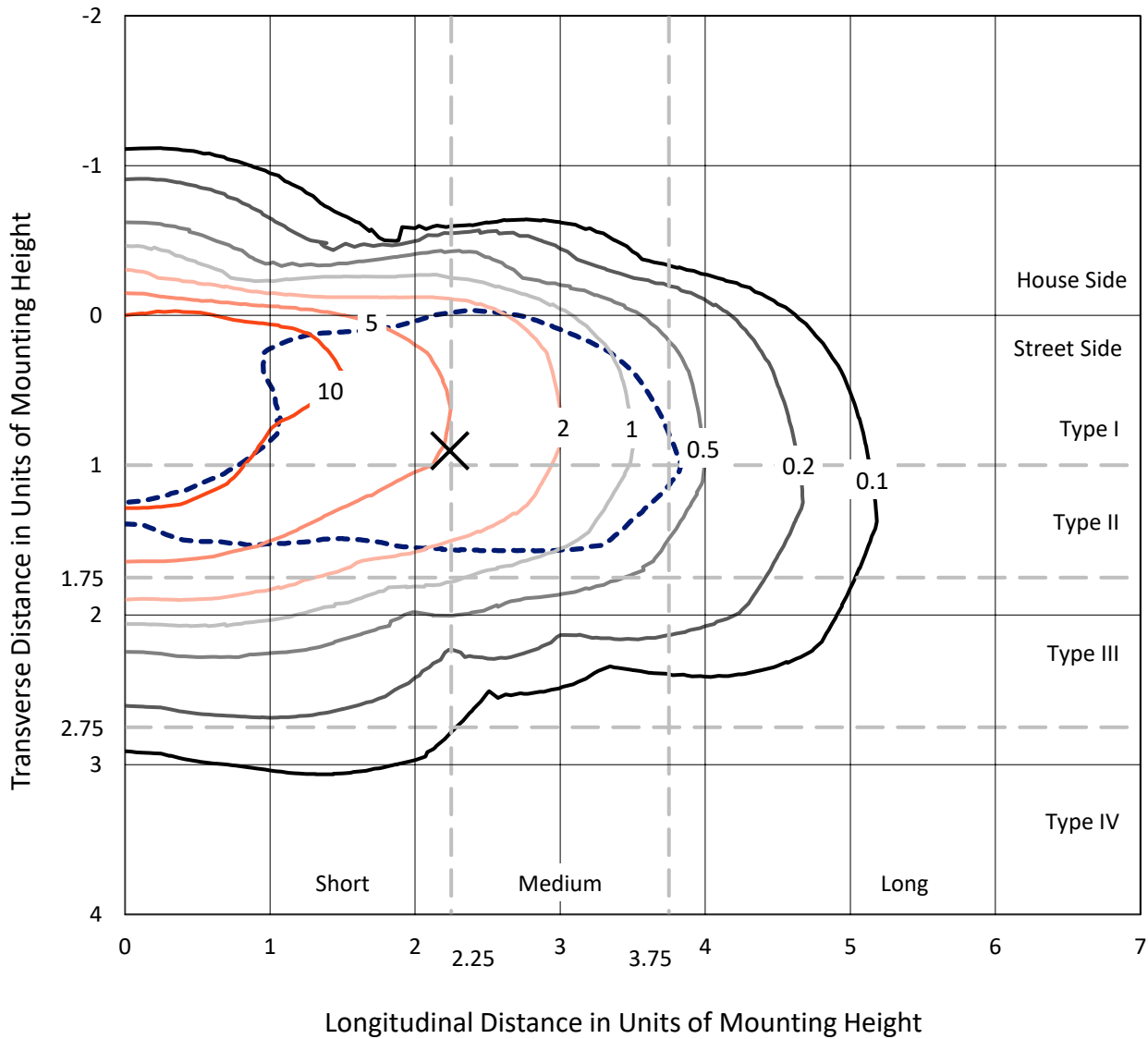
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

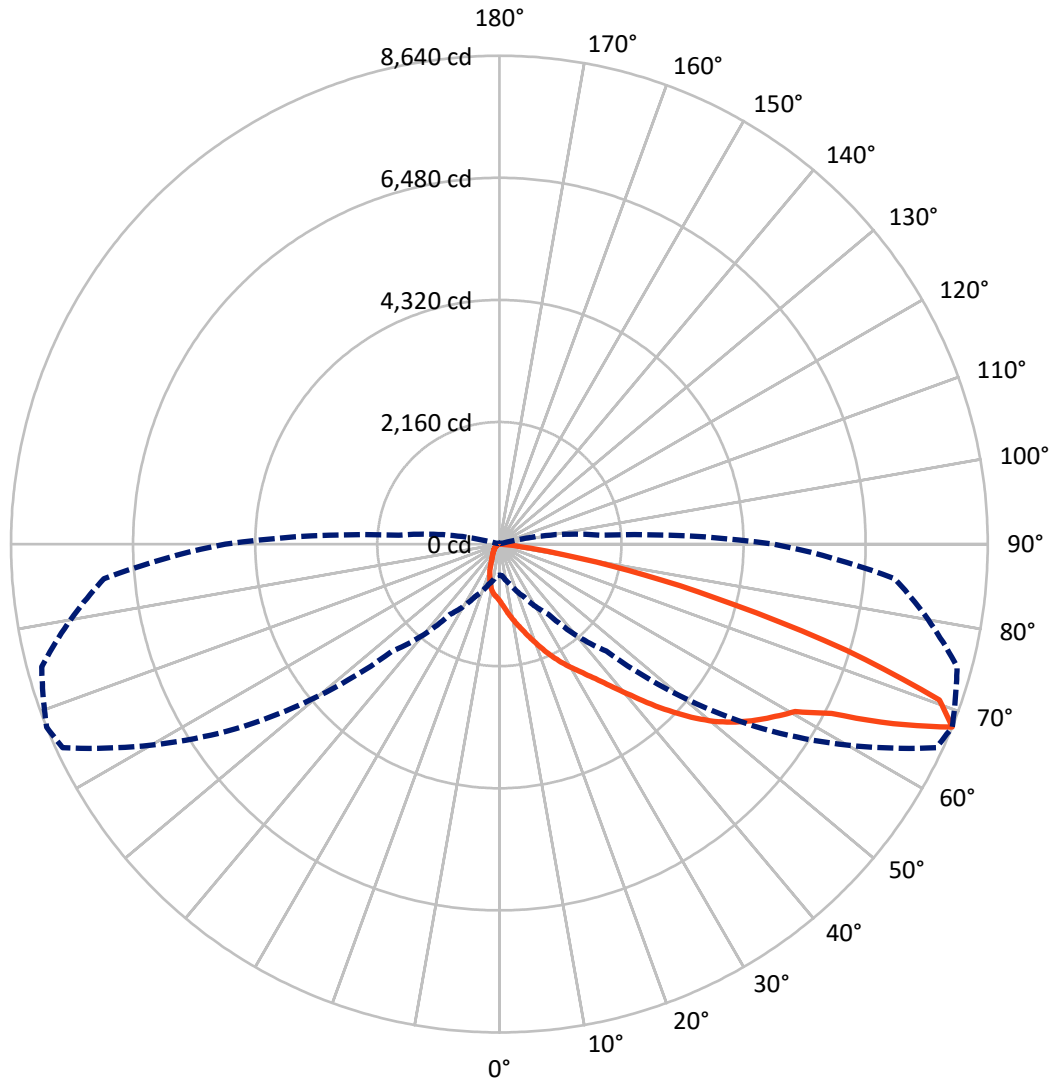
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 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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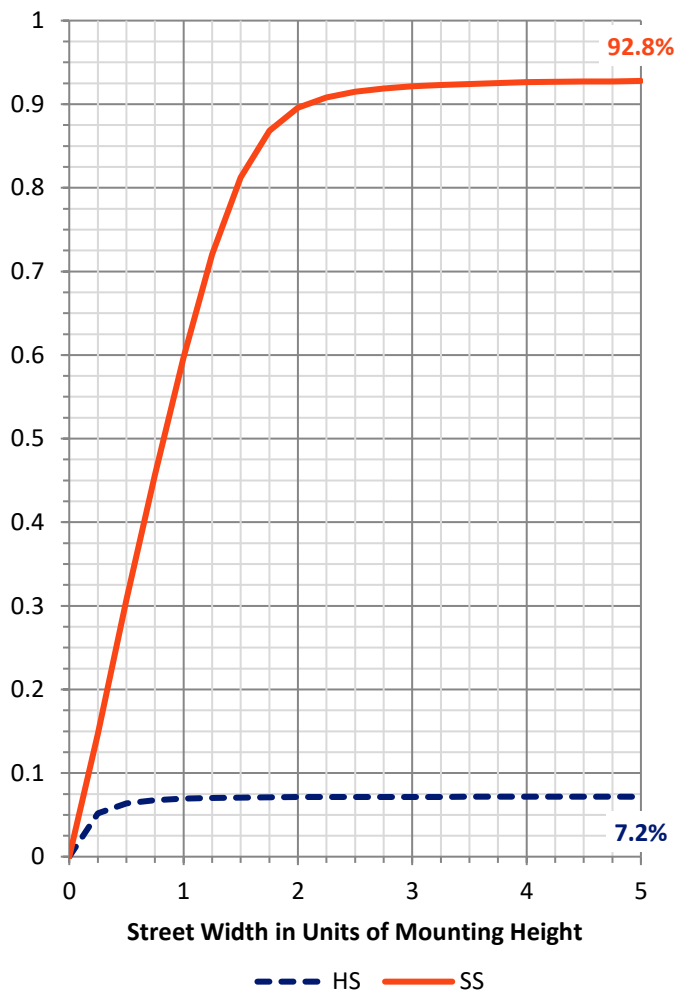
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	622.9	0.0	622.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8003.3	0.0	8003.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	8626.2	0.0	8626.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.1
10°-20°	281.2	3.3
20°-30°	483.2	5.6
30°-40°	840.1	9.7
40°-50°	1465.8	17.0
50°-60°	2210.8	25.6
60°-70°	2216.9	25.7
70°-80°	978.1	11.3
80°-90°	52.3	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°	8626.2	100.0
0°-180°	8626.2	100.0

Coefficient of Utilization



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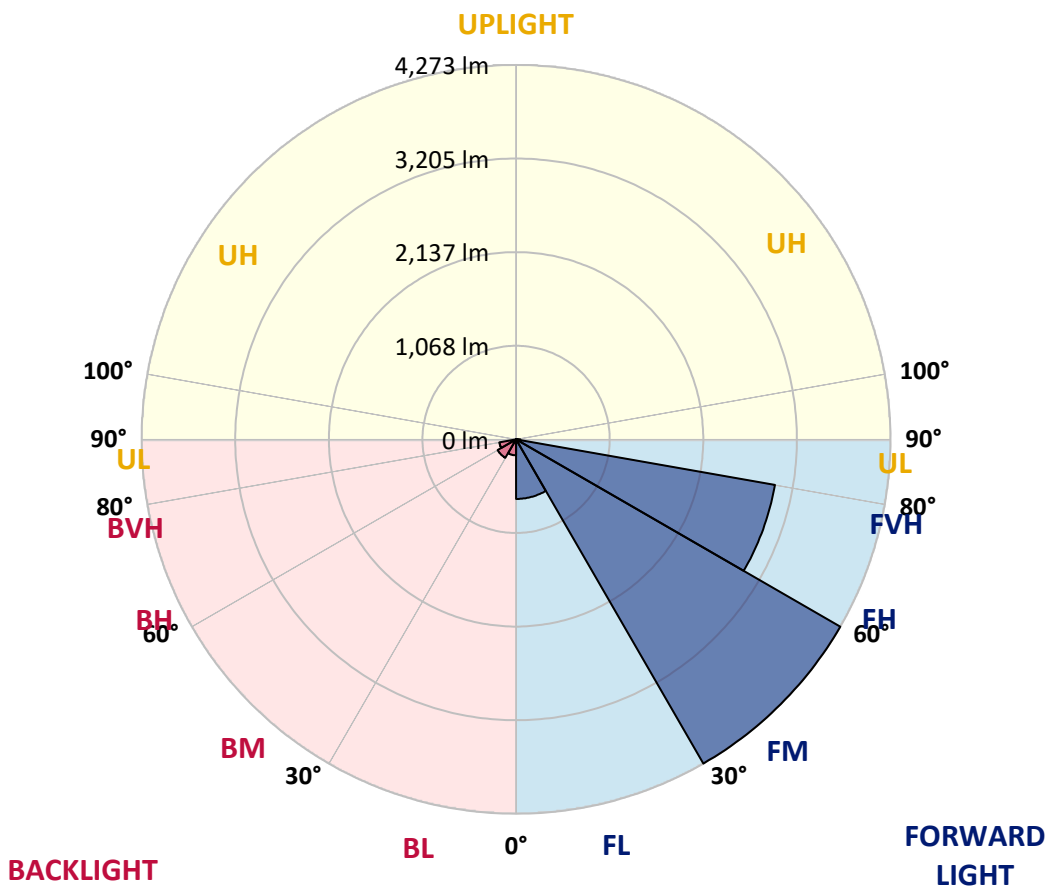
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.0	7.9			
FM (30°-60°)	4273.4	49.5			
FH (60°-80°)	3000.6	34.8			G2/5000
FVH (80°-90°)	49.3	0.6			G1/100
BL (0°-30°)	182.2	2.1	B1/500		
BM (30°-60°)	243.3	2.8	B1/1000		
BH (60°-80°)	194.4	2.3	B1/500		G1/500
BVH (80°-90°)	3.0	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°	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9
2.5°	1169.0	1176.4	1169.0	1170.6	1149.2	1139.3	1117.8	1088.1	1080.6	1061.7	1032.8
5°	1311.8	1318.4	1311.0	1309.3	1284.6	1266.4	1230.9	1179.7	1164.9	1127.7	1070.7
7.5°	1389.4	1393.5	1396.0	1400.1	1391.1	1376.2	1344.0	1280.4	1264.7	1204.5	1124.4
10°	1397.7	1401.0	1413.3	1438.1	1456.3	1465.4	1447.2	1388.6	1363.8	1305.2	1190.4
12.5°	1374.5	1379.5	1399.3	1440.6	1490.9	1537.2	1548.7	1497.5	1475.3	1400.1	1268.0
15°	1344.0	1348.1	1375.4	1431.5	1507.5	1592.5	1640.4	1618.1	1593.3	1514.9	1353.9
17.5°	1296.9	1302.7	1340.7	1416.6	1514.9	1636.2	1739.4	1746.9	1729.5	1644.5	1448.8
20°	1270.5	1274.7	1308.5	1386.9	1509.9	1668.4	1831.9	1902.1	1883.1	1793.9	1557.8
22.5°	1292.8	1296.1	1318.4	1379.5	1493.4	1686.6	1917.8	2057.3	2046.5	1954.1	1672.6
25°	1410.0	1420.8	1407.6	1418.3	1500.9	1696.5	1987.1	2212.5	2215.0	2121.7	1791.4
27.5°	1647.8	1633.8	1602.4	1548.7	1558.6	1722.9	2046.5	2358.6	2380.1	2285.1	1897.1
30°	1889.7	1881.4	1862.4	1779.1	1709.7	1781.5	2096.9	2508.0	2541.9	2446.1	1991.2
32.5°	2161.3	2169.5	2135.7	2035.8	1917.8	1900.4	2148.9	2650.0	2713.6	2628.6	2101.9
35°	2485.7	2488.2	2421.3	2310.7	2177.0	2096.9	2242.2	2806.9	2924.1	2861.4	2249.6
37.5°	2801.9	2816.8	2780.5	2606.3	2487.4	2341.3	2396.6	3008.3	3173.4	3148.7	2435.4
40°	3081.8	3104.9	3093.3	2924.9	2768.9	2645.9	2636.0	3244.4	3474.7	3502.8	2680.6
42.5°	3304.7	3319.5	3328.6	3208.9	3071.1	3001.7	2931.5	3518.5	3830.6	3945.3	2981.1
45°	3540.0	3544.9	3563.9	3483.0	3362.5	3368.2	3280.7	3851.2	4205.4	4435.7	3326.1
47.5°	3839.6	3856.1	3847.1	3762.0	3653.1	3718.3	3641.5	4193.8	4575.2	4959.1	3679.5
50°	4204.5	4221.9	4213.6	4114.5	3993.2	4020.4	3972.6	4526.5	4931.8	5452.8	3973.4
52.5°	4392.8	4406.8	4509.2	4553.7	4490.2	4316.8	4254.9	4892.2	5233.2	5858.9	4243.3
55°	4301.9	4311.9	4534.8	4723.0	4955.8	4782.4	4538.9	5174.6	5499.0	6175.9	4443.9
57.5°	3925.5	3979.2	4282.1	4600.8	5090.3	5242.3	4999.5	5481.7	5754.9	6396.4	4641.2
60°	3153.6	3151.1	3585.4	4157.5	4827.8	5368.6	5650.1	5896.9	6011.7	6565.6	4905.4
62.5°	1742.7	1758.4	2336.3	3090.0	4098.0	5041.6	6138.0	6614.3	6597.0	6861.2	5319.0
65°	867.7	899.0	1212.7	1770.0	2726.8	4166.6	6222.2	7709.0	7659.5	7557.1	6173.5
67.5°	550.6	563.0	736.4	1028.6	1515.7	2678.1	5698.0	8525.5	8640.2	8382.6	7021.3
70°	356.6	377.3	511.8	703.4	914.7	1380.3	4174.0	7996.3	8259.6	8291.8	6493.0
72.5°	194.0	208.9	326.9	501.9	660.4	690.2	2344.6	6000.9	6424.4	7033.7	5079.6
75°	110.6	121.4	179.1	341.0	484.6	420.2	1039.4	4017.1	4287.1	5026.8	3639.9
77.5°	66.9	76.0	100.7	165.9	303.8	280.7	393.0	2445.3	2617.0	2999.2	1910.3
80°	30.5	36.3	63.6	91.6	165.9	132.9	150.3	1140.1	1177.2	1230.9	632.4
82.5°	14.0	16.5	28.9	54.5	94.1	76.8	57.8	263.4	370.7	350.9	161.0
85°	1.7	1.7	10.7	22.3	26.4	19.8	23.9	59.4	75.1	105.7	46.2
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	5.0	7.4	10.7	17.3	11.6
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°	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9	1003.9
2.5°	1019.6	996.4	975.8	945.3	924.6	901.5	885.8	866.8	859.4	853.6	845.4
5°	1042.7	1005.5	955.2	899.0	852.8	809.0	768.6	742.2	719.1	715.8	704.2
7.5°	1080.6	1025.3	940.3	848.7	770.2	697.6	640.6	594.4	571.3	563.9	550.6
10°	1131.0	1055.1	918.0	777.7	664.6	577.9	513.5	461.5	425.2	412.0	402.0
12.5°	1187.1	1082.3	882.5	690.2	561.4	462.3	380.6	325.3	302.2	293.9	286.5
15°	1251.5	1107.9	826.4	602.7	460.7	340.1	282.3	258.4	248.5	246.0	243.5
17.5°	1313.5	1124.4	759.5	511.8	354.2	264.2	236.9	227.9	225.4	222.9	221.2
20°	1383.6	1136.0	681.1	426.0	274.9	223.7	210.5	203.9	199.0	194.0	193.2
22.5°	1455.4	1136.0	596.0	341.8	230.3	200.6	185.7	173.4	164.3	159.3	157.7
25°	1524.0	1120.3	511.8	273.3	203.1	178.3	159.3	145.3	132.9	127.1	125.5
27.5°	1572.7	1079.8	438.4	231.2	184.1	158.5	135.4	119.7	109.8	104.0	103.2
30°	1603.2	1019.6	370.7	206.4	167.6	137.9	114.8	101.5	94.1	90.0	88.3
32.5°	1626.3	945.3	310.4	189.1	151.9	119.7	99.9	89.2	82.6	79.3	78.4
35°	1672.6	875.1	265.8	173.4	135.4	104.8	87.5	79.3	74.3	70.2	69.3
37.5°	1737.0	816.5	230.3	159.3	119.7	93.3	79.3	71.8	67.7	63.6	62.7
40°	1831.9	779.3	203.9	145.3	105.7	84.2	72.6	66.0	60.3	56.1	55.3
42.5°	1978.0	762.0	186.6	131.3	93.3	76.0	66.9	58.6	52.8	48.7	47.9
45°	2152.2	771.1	171.7	117.2	85.0	70.2	59.4	51.2	45.4	41.3	40.5
47.5°	2338.8	803.3	159.3	104.0	76.8	64.4	52.8	43.8	38.8	34.7	33.8
50°	2533.6	856.1	148.6	91.6	70.2	57.8	45.4	38.0	33.0	29.7	28.9
52.5°	2702.9	927.9	137.9	82.6	64.4	51.2	39.6	33.0	28.1	24.8	23.9
55°	2864.7	995.6	129.6	74.3	57.8	44.6	34.7	28.1	23.9	20.6	19.8
57.5°	3040.5	1067.4	119.7	66.9	52.0	39.6	30.5	23.9	20.6	17.3	16.5
60°	3296.4	1173.9	104.8	61.1	45.4	34.7	26.4	21.5	18.2	14.0	13.2
62.5°	3665.4	1367.9	88.3	52.8	38.8	29.7	22.3	18.2	14.9	11.6	9.9
65°	4355.6	1698.2	72.6	43.8	31.4	24.8	19.0	14.9	11.6	8.3	7.4
67.5°	4852.6	1784.0	58.6	35.5	25.6	19.0	15.7	11.6	8.3	5.8	5.0
70°	4242.5	1281.3	45.4	28.9	21.5	14.9	12.4	9.1	5.8	4.1	3.3
72.5°	3196.5	837.1	33.8	22.3	16.5	12.4	9.1	7.4	5.0	3.3	2.5
75°	2252.9	483.8	24.8	16.5	11.6	9.1	7.4	5.8	4.1	2.5	2.5
77.5°	1154.9	199.8	17.3	11.6	8.3	5.8	5.0	3.3	3.3	2.5	1.7
80°	350.9	66.0	9.9	7.4	5.8	4.1	2.5	2.5	2.5	1.7	0.8
82.5°	80.1	21.5	5.8	5.8	4.1	3.3	2.5	0.8	0.8	0.0	0.0
85°	20.6	6.6	5.0	4.1	4.1	3.3	1.7	0.8	0.0	0.0	0.0
87.5°	7.4	4.1	4.1	4.1	3.3	2.5	1.7	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)