

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P956613

Luminaire Tested: **GALN-SB9B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36125 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



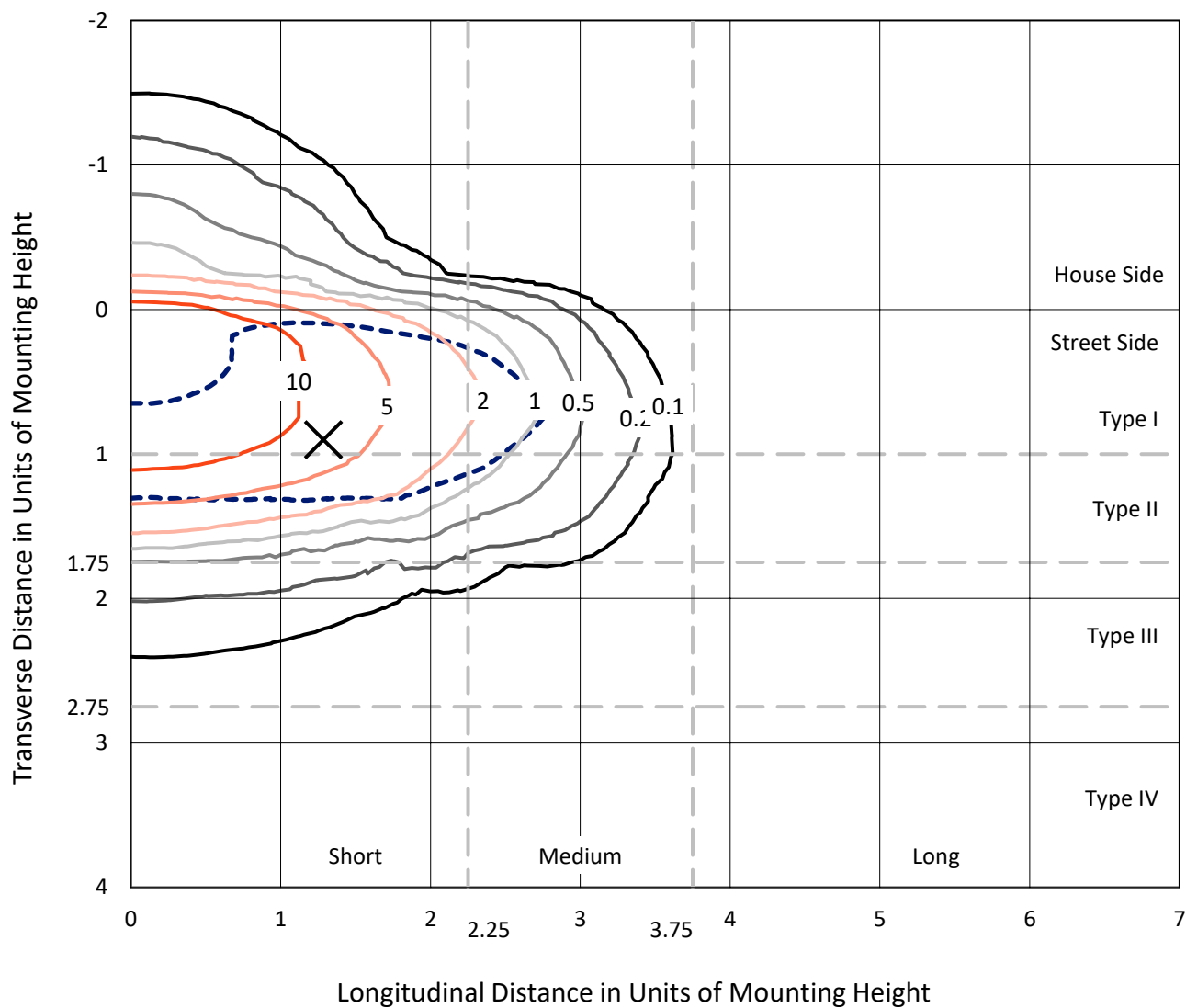
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

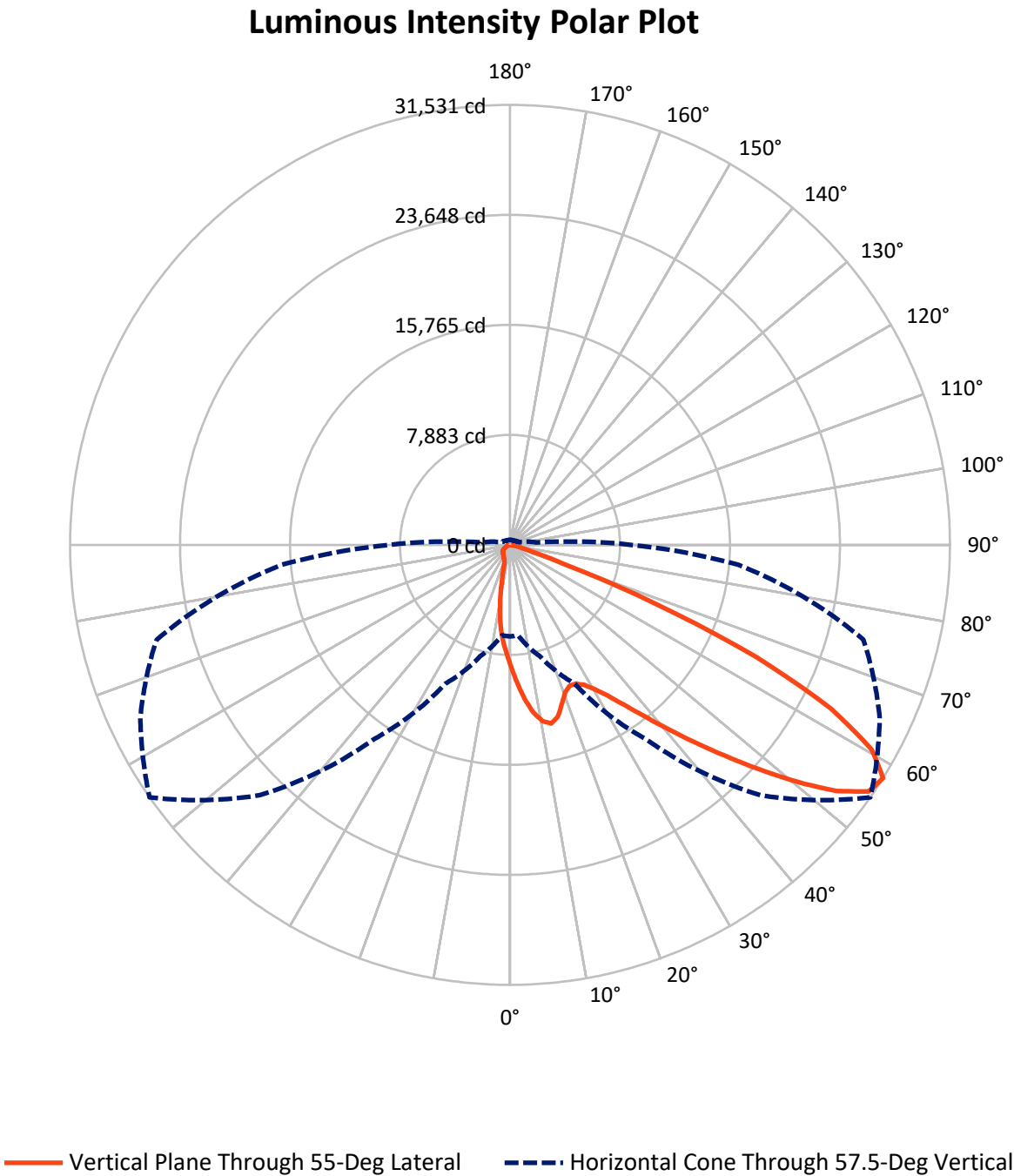
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2821.2	0.0	2821.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	33303.8	0.0	33303.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	36125.0	0.0	36125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.0	2.2
10°-20°	1956.5	5.4
20°-30°	3130.4	8.7
30°-40°	5298.3	14.7
40°-50°	8698.7	24.1
50°-60°	9560.5	26.5
60°-70°	5483.9	15.2
70°-80°	1120.5	3.1
80°-90°	66.1	0.2
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°	36125.0	100.0
0°-180°	36125.0	100.0

Coefficient of Utilization



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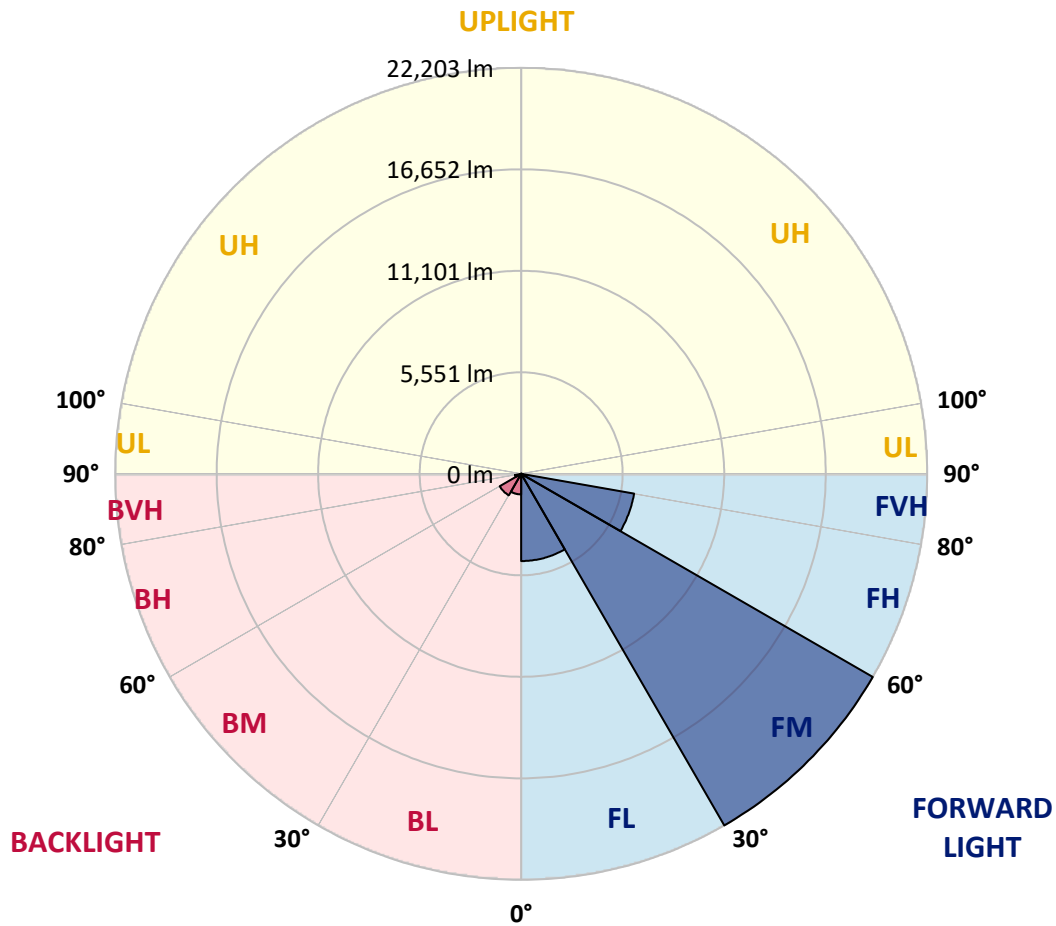
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4770.5	13.2			
FM	(30°-60°)	22202.7	61.5			
FH	(60°-80°)	6268.9	17.4			G3/7500
FVH	(80°-90°)	61.6	0.2			G1/100
BL	(0°-30°)	1126.3	3.1	B3/2500		
BM	(30°-60°)	1354.9	3.8	B2/2500		
BH	(60°-80°)	335.5	0.9	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: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2
2.5°	10801.4	10665.5	10645.4	10618.7	10360.3	10166.5	9885.8	9578.4	9233.2	8881.2	8725.3
5°	12478.7	12371.8	12351.7	12227.0	11932.9	11603.3	11104.3	10473.9	9830.1	9072.8	8747.6
7.5°	12803.9	12783.9	12875.2	12870.7	12830.6	12570.0	12149.0	11398.3	10431.6	9308.9	8805.5
10°	11353.8	11405.0	11676.8	11915.1	12558.9	12933.1	12841.8	12222.5	11050.8	9578.4	8870.1
12.5°	10032.8	9972.7	10166.5	10436.0	11184.5	12298.3	13129.1	12910.8	11759.2	9883.6	8965.9
15°	9204.2	9179.7	9288.9	9413.6	9983.8	11106.5	12795.0	13469.9	12440.8	10244.5	9110.6
17.5°	8939.1	8919.1	8952.5	8983.7	9353.4	10222.2	11999.8	13813.0	13093.5	10656.6	9271.0
20°	9155.2	9128.5	9124.0	9099.5	9253.2	9845.7	11280.3	13837.5	13679.3	11030.8	9409.1
22.5°	9785.6	9754.4	9645.3	9547.2	9560.6	9897.0	10959.5	13592.5	14120.4	11380.5	9496.0
25°	10928.3	10877.1	10649.9	10320.2	10110.8	10253.4	11008.5	13269.5	14541.4	11654.5	9453.7
27.5°	12358.4	12291.6	11999.8	11509.7	11030.8	10857.0	11362.7	13046.7	14891.1	11863.9	9362.4
30°	13759.5	13672.7	13385.3	13004.4	12304.9	11757.0	12002.0	13144.7	15307.7	12082.2	9242.1
32.5°	15272.0	15189.6	14808.7	14336.5	13757.3	13020.0	12877.4	13623.6	15817.8	12387.4	9157.4
35°	17185.5	17056.3	16515.0	15871.2	15256.4	14510.2	14062.5	14450.1	16497.2	12852.9	9204.2
37.5°	19364.0	19190.3	18606.7	17717.9	16916.0	16080.6	15505.9	15586.1	17492.9	13476.6	9349.0
40°	21417.8	21259.7	20720.6	19883.0	18876.2	17862.7	17250.1	17071.9	18867.3	14236.2	9602.9
42.5°	22649.6	22507.1	22279.9	21925.7	21077.0	20043.4	19270.5	18885.1	20493.4	15145.1	9912.6
45°	22718.7	22594.0	22899.1	23311.2	23144.2	22455.9	21513.6	20807.5	22126.2	15998.2	10233.3
47.5°	21613.8	21529.2	22455.9	23894.8	24612.1	24901.7	24033.0	22569.5	23473.8	16610.8	10364.8
50°	18602.2	18571.0	20477.8	23119.7	25171.2	27044.6	26690.4	24208.9	24518.6	16927.1	10240.0
52.5°	16129.6	16016.0	17127.6	20638.2	24358.2	28171.7	29287.7	25817.2	25249.2	16987.2	9948.2
55°	12233.7	12133.4	13527.9	16486.0	21736.4	27770.8	31187.8	27476.7	25772.7	16833.5	9424.7
57.5°	6562.3	6500.0	8262.0	10972.9	16991.7	25365.0	31530.9	29232.0	26213.7	16425.9	8691.9
60°	2555.0	2543.9	3203.2	5323.8	10326.9	20636.0	29800.1	30285.7	26489.9	15924.7	8079.3
62.5°	1545.9	1579.3	1686.2	2390.2	4562.0	12819.5	25810.5	29087.2	26674.8	15465.8	7573.6
65°	1278.6	1280.8	1294.2	1641.7	2185.2	5363.9	19430.9	25144.5	26218.2	14648.3	6856.4
67.5°	1096.0	1116.0	1167.2	1303.1	1541.5	2352.3	11186.7	19477.6	23440.4	12746.0	5738.1
70°	864.3	891.0	955.6	1071.4	1189.5	1472.4	4134.3	12959.8	17907.2	9607.4	4339.3
72.5°	728.4	726.2	759.6	871.0	944.5	1035.8	1590.5	7261.8	10407.1	4586.5	2147.4
75°	563.6	585.8	628.2	728.4	773.0	750.7	862.1	2653.0	3728.9	1390.0	730.6
77.5°	441.1	458.9	496.7	594.8	639.3	532.4	496.7	948.9	1198.4	499.0	329.7
80°	198.3	213.8	338.6	438.8	521.2	367.5	269.5	485.6	532.4	227.2	167.1
82.5°	35.6	60.1	198.3	231.7	267.3	238.3	140.3	251.7	260.6	91.3	57.9
85°	2.2	4.5	69.1	84.6	106.9	78.0	42.3	100.2	86.9	31.2	22.3
87.5°	0.0	0.0	0.0	2.2	2.2	11.1	13.4	17.8	13.4	11.1	8.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2	8705.2
2.5°	8564.9	8248.6	7941.2	7689.5	7542.5	7293.0	7128.1	7101.4	7032.4	7092.5
5°	8400.1	7834.3	7261.8	6749.5	6328.4	5784.9	5379.5	5208.0	5058.7	5110.0
7.5°	8322.1	7428.9	6537.8	5662.4	4762.5	3893.7	3247.8	2978.2	2773.3	2802.2
10°	8217.4	7007.8	5611.2	4274.7	3069.6	2211.9	1766.4	1601.6	1510.3	1512.5
12.5°	8137.2	6504.4	4535.3	2898.0	1868.9	1412.3	1274.2	1234.1	1207.3	1209.6
15°	8097.1	5911.9	3472.7	1931.3	1336.5	1196.2	1162.8	1145.0	1127.1	1124.9
17.5°	8030.3	5252.5	2541.6	1410.0	1169.5	1120.5	1091.5	1071.4	1049.2	1044.7
20°	7930.1	4504.1	1857.8	1191.7	1096.0	1058.1	1018.0	991.3	964.5	960.1
22.5°	7745.2	3713.3	1427.9	1102.6	1042.5	1000.2	951.2	920.0	893.2	888.8
25°	7402.1	2971.5	1202.9	1046.9	995.7	944.5	891.0	848.7	824.2	819.7
27.5°	6967.8	2334.5	1091.5	995.7	935.6	888.8	828.6	788.5	766.3	761.8
30°	6455.4	1797.6	1026.9	937.8	864.3	824.2	770.7	737.3	724.0	724.0
32.5°	5903.0	1436.8	1000.2	879.9	801.9	757.4	715.0	701.7	697.2	695.0
35°	5384.0	1247.4	986.8	833.1	746.2	703.9	686.1	688.3	697.2	697.2
37.5°	4922.9	1187.3	980.1	799.7	697.2	659.4	670.5	690.5	681.6	681.6
40°	4506.3	1194.0	975.7	775.2	657.1	634.8	657.1	641.5	619.3	617.0
42.5°	4187.8	1249.7	966.8	755.1	632.6	617.0	608.1	583.6	581.4	585.8
45°	3956.1	1298.7	964.5	746.2	605.9	576.9	565.8	541.3	585.8	597.0
47.5°	3682.1	1298.7	964.5	715.0	561.3	550.2	532.4	505.7	550.2	561.3
50°	3327.9	1216.2	926.7	679.4	525.7	519.0	487.8	454.4	445.5	452.2
52.5°	2880.2	1067.0	830.9	630.4	490.1	476.7	438.8	414.3	407.6	407.6
55°	2370.1	893.2	701.7	559.1	452.2	427.7	401.0	389.8	383.1	378.7
57.5°	1926.8	732.9	563.6	496.7	416.6	385.4	376.5	363.1	352.0	345.3
60°	1581.6	576.9	465.6	441.1	380.9	352.0	349.7	331.9	302.9	298.5
62.5°	1220.7	423.2	392.0	383.1	345.3	320.8	316.3	280.7	236.1	227.2
65°	862.1	329.7	316.3	336.4	307.4	285.1	274.0	220.5	173.7	167.1
67.5°	605.9	276.2	249.5	294.0	267.3	238.3	231.7	187.1	144.8	140.3
70°	432.1	225.0	204.9	251.7	213.8	209.4	196.0	155.9	118.1	113.6
72.5°	305.2	171.5	158.2	218.3	147.0	180.4	160.4	120.3	89.1	84.6
75°	225.0	122.5	111.4	127.0	106.9	135.9	113.6	80.2	55.7	53.5
77.5°	164.8	78.0	66.8	62.4	62.4	84.6	62.4	33.4	24.5	22.3
80°	115.8	35.6	31.2	26.7	24.5	20.0	8.9	4.5	2.2	2.2
82.5°	69.1	15.6	15.6	11.1	6.7	0.0	0.0	0.0	0.0	0.0
85°	15.6	6.7	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	0.0	0.0	0.0	0.0	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

(END OF REPORT)