

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: P946991

Luminaire Tested: **GALN-SB2C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9530 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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



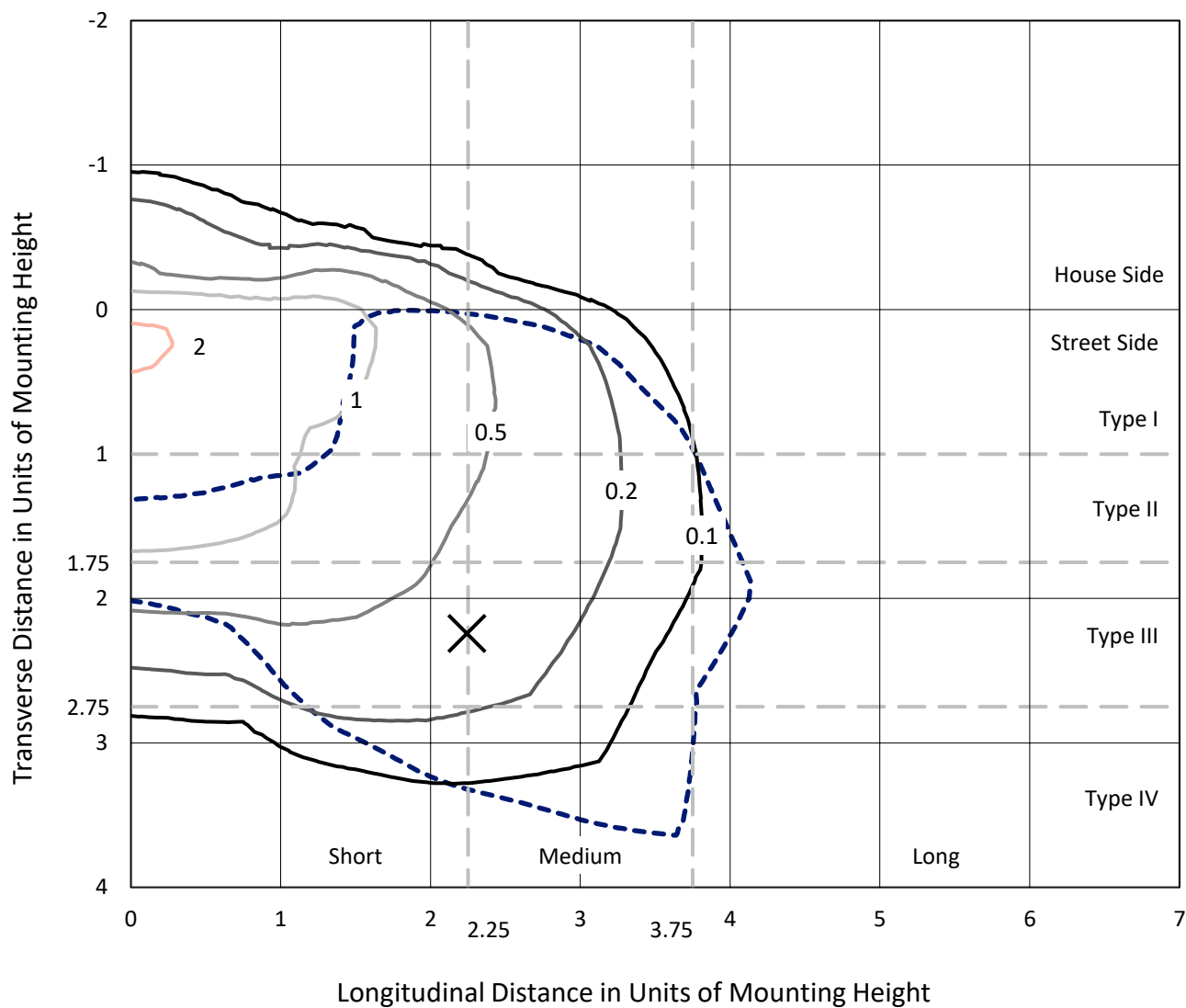
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

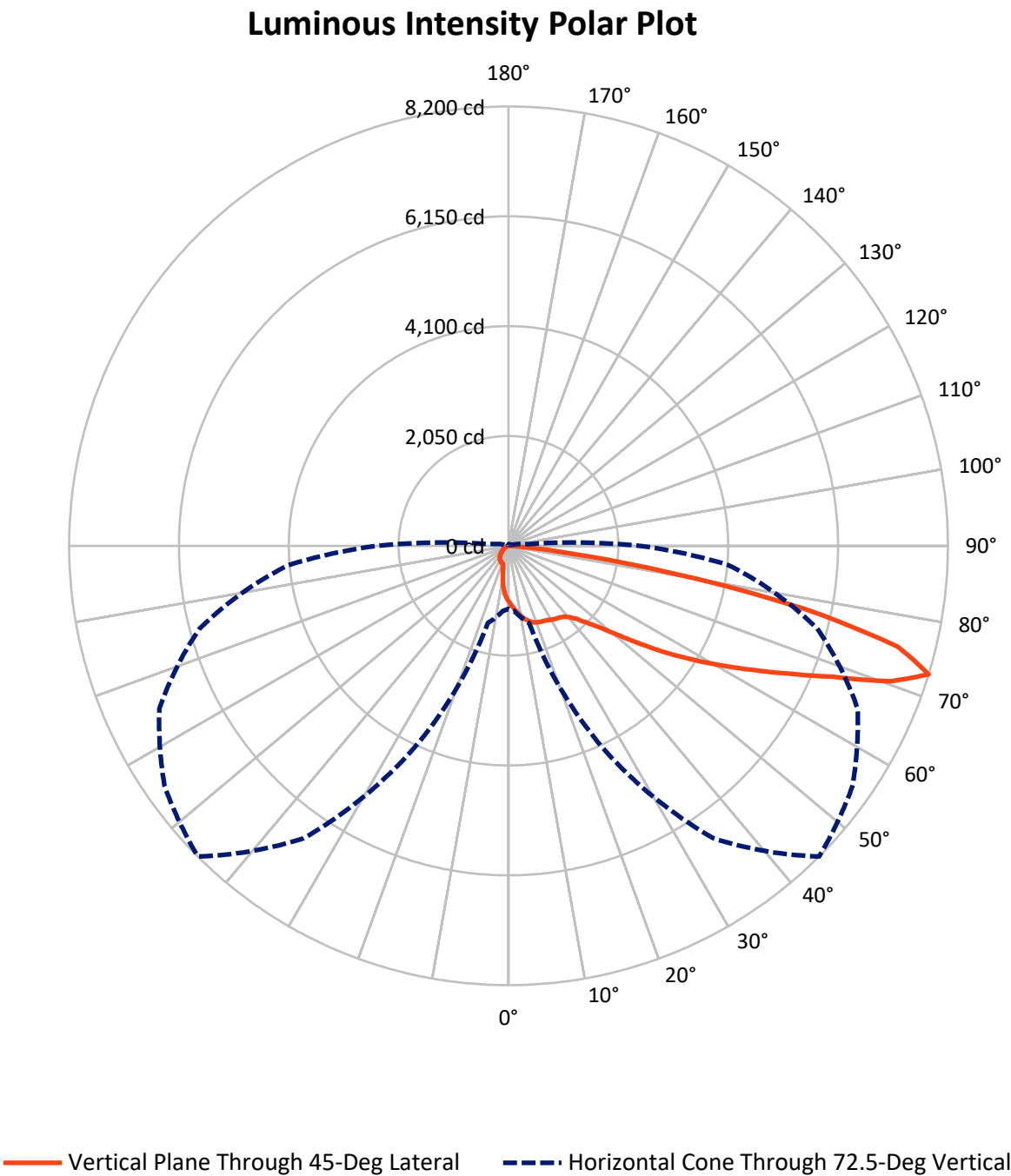
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1001.3	0.0	1001.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8528.7	0.0	8528.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	9530.0	0.0	9530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	1.0
10°-20°	287.5	3.0
20°-30°	472.1	5.0
30°-40°	669.6	7.0
40°-50°	1106.7	11.6
50°-60°	1988.1	20.9
60°-70°	2760.5	29.0
70°-80°	2002.4	21.0
80°-90°	144.8	1.5
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°	9530.0	100.0
0°-180°	9530.0	100.0

Coefficient of Utilization



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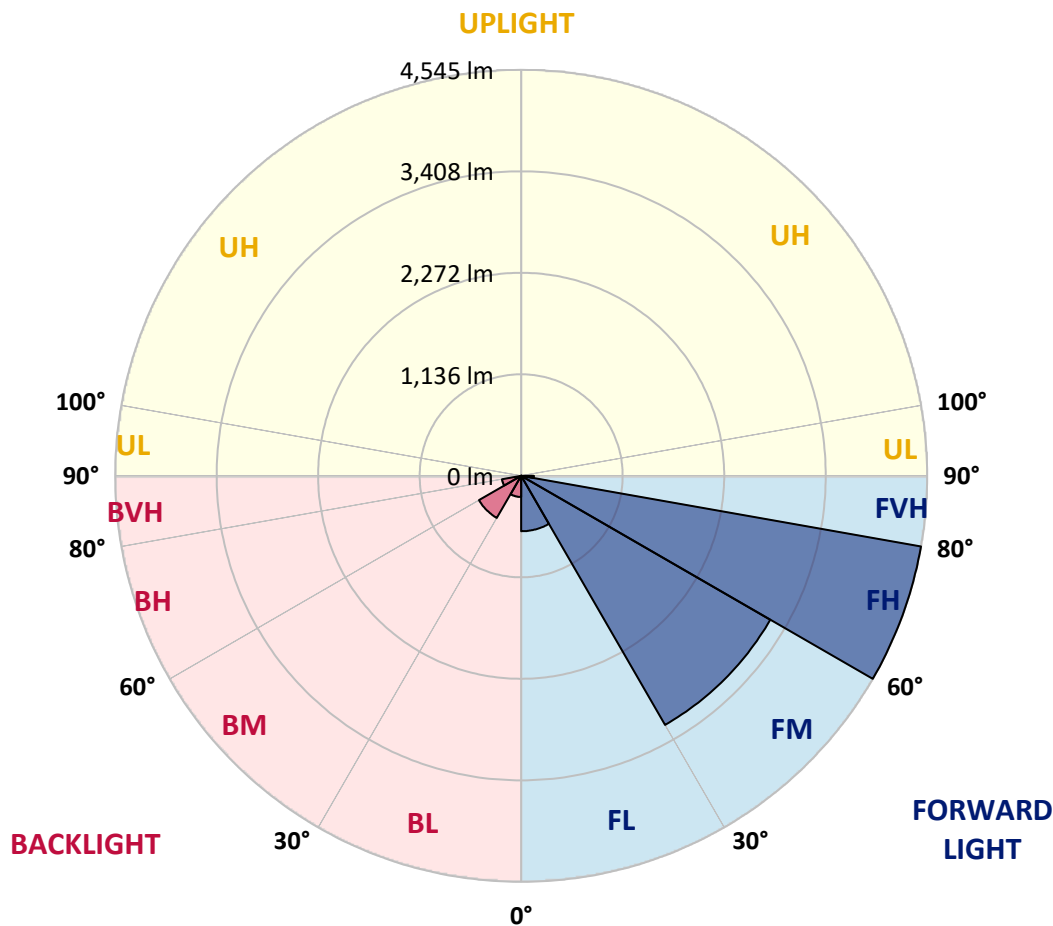
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.8	6.5			
FM	(30°-60°)	3219.7	33.8			
FH	(60°-80°)	4544.6	47.7			G2/5000
FVH	(80°-90°)	143.6	1.5			G2/225
BL	(0°-30°)	237.2	2.5	B1/500		
BM	(30°-60°)	544.6	5.7	B1/1000		
BH	(60°-80°)	218.4	2.3	B1/500		G1/500
BVH	(80°-90°)	1.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0
2.5°	1140.3	1142.3	1141.0	1133.1	1120.1	1113.0	1109.1	1096.1	1087.6	1072.7	1057.0
5°	1245.0	1252.8	1248.3	1232.7	1208.0	1190.4	1185.2	1158.5	1134.4	1106.5	1074.0
7.5°	1356.3	1360.2	1351.7	1331.5	1298.4	1268.4	1263.9	1226.8	1188.4	1145.5	1101.3
10°	1452.5	1457.1	1444.1	1414.8	1377.1	1340.0	1333.5	1292.5	1247.0	1194.3	1137.7
12.5°	1533.2	1537.8	1520.8	1485.7	1444.1	1405.7	1399.2	1356.3	1306.2	1247.6	1177.4
15°	1594.3	1602.8	1580.0	1542.3	1497.4	1459.0	1455.8	1413.5	1364.7	1299.7	1224.9
17.5°	1630.1	1638.6	1617.1	1571.6	1533.2	1500.7	1496.8	1461.6	1416.1	1353.7	1271.1
20°	1636.0	1643.8	1621.0	1581.3	1549.5	1523.4	1521.5	1496.1	1462.9	1403.1	1321.1
22.5°	1618.4	1628.2	1607.4	1575.5	1553.4	1539.7	1537.1	1522.8	1503.9	1453.2	1368.0
25°	1600.2	1608.0	1592.4	1564.4	1552.7	1551.4	1553.4	1550.8	1546.9	1503.9	1422.6
27.5°	1598.9	1607.4	1589.8	1563.1	1556.6	1570.3	1572.2	1584.6	1587.8	1550.1	1475.3
30°	1610.0	1615.8	1598.9	1570.9	1567.7	1598.9	1599.5	1621.7	1626.9	1589.1	1527.3
32.5°	1634.0	1640.5	1623.6	1582.6	1578.1	1621.7	1623.6	1652.9	1661.3	1630.8	1582.0
35°	1690.6	1698.4	1678.9	1615.2	1598.9	1643.1	1649.0	1683.5	1700.4	1675.0	1638.6
37.5°	1831.8	1809.0	1782.3	1680.9	1646.4	1677.0	1686.7	1727.0	1757.0	1727.7	1706.2
40°	2182.4	2110.8	2027.6	1792.7	1729.6	1749.2	1757.0	1797.3	1838.3	1809.7	1799.2
42.5°	2708.6	2624.1	2490.1	2050.3	1855.2	1864.9	1870.8	1905.9	1963.8	1941.1	1943.7
45°	3177.6	3147.1	3010.5	2490.1	2090.0	2041.9	2049.0	2067.2	2152.5	2144.0	2160.9
47.5°	3538.0	3520.4	3415.1	2994.8	2486.8	2258.5	2278.7	2287.1	2410.1	2440.0	2485.5
50°	3815.1	3808.6	3714.3	3443.7	3005.3	2577.9	2585.0	2566.8	2750.9	2825.1	2911.6
52.5°	4076.6	4098.7	4029.1	3860.6	3558.8	2996.1	2994.8	2909.0	3157.5	3269.3	3417.0
55°	4312.7	4320.5	4327.7	4286.1	4115.6	3472.3	3459.9	3319.4	3629.1	3744.9	3904.9
57.5°	4534.5	4537.8	4601.5	4686.8	4695.2	3983.6	3960.8	3792.3	4144.3	4226.9	4325.1
60°	4683.5	4698.5	4833.1	5069.9	5173.3	4511.1	4498.8	4327.0	4668.5	4706.9	4688.7
62.5°	4468.8	4559.9	4899.5	5369.1	5624.8	5095.9	5090.1	4928.7	5220.2	5188.9	5032.8
65°	3617.4	3771.5	4368.7	5571.4	6067.7	5749.0	5757.5	5585.7	5786.7	5685.3	5312.5
67.5°	2530.4	2693.0	3399.4	5587.7	6562.8	6515.9	6564.7	6295.4	6388.4	6160.8	5378.9
70°	1749.8	1833.7	2293.6	5237.7	6948.5	7572.3	7571.0	7167.1	6986.9	6377.4	5040.6
72.5°	1176.7	1220.3	1489.6	4155.3	6664.9	8200.0	8162.3	7833.2	7188.5	5964.3	4118.2
75°	496.3	528.2	689.5	2335.2	5272.8	7502.1	7399.9	6922.5	6387.1	4696.5	2569.4
77.5°	157.4	171.1	271.9	835.9	2904.4	5639.1	5531.1	4323.1	4280.9	2356.1	939.3
80°	74.8	87.2	152.9	335.7	1142.9	3067.0	3052.1	1961.2	1841.5	636.2	188.6
82.5°	32.5	38.4	84.6	179.5	511.3	1094.1	1116.2	667.4	552.3	241.3	57.9
85°	10.4	13.7	39.0	82.6	216.0	271.9	268.7	158.7	222.5	131.4	20.2
87.5°	0.0	0.0	13.0	18.9	22.1	15.6	17.6	13.7	61.8	36.4	7.2
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°	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0	1044.0
2.5°	1049.2	1038.8	1020.6	1003.7	988.7	973.8	964.7	951.7	950.4	950.4	953.6
5°	1056.4	1039.5	1007.0	972.5	932.8	895.1	857.3	820.9	809.2	800.7	804.7
7.5°	1077.2	1050.5	999.1	933.4	858.0	775.4	717.5	655.0	631.0	618.0	619.9
10°	1107.1	1070.7	992.6	877.5	755.2	642.7	560.1	492.4	466.4	455.3	455.3
12.5°	1140.3	1095.4	980.9	807.9	642.7	508.0	427.4	396.1	392.2	392.2	392.2
15°	1180.0	1125.3	960.8	725.9	524.9	402.0	373.4	374.7	378.6	381.2	381.2
17.5°	1221.0	1157.2	928.9	634.2	420.9	361.7	362.3	364.3	367.5	370.1	370.1
20°	1265.2	1189.1	886.6	536.7	361.0	350.0	351.9	353.9	356.5	357.8	358.4
22.5°	1312.7	1219.0	836.5	441.0	340.9	340.2	340.9	342.8	346.1	346.1	347.4
25°	1363.4	1252.2	779.3	371.4	330.4	330.4	331.7	333.0	335.7	335.7	336.3
27.5°	1415.5	1282.8	718.8	335.0	321.3	320.7	320.7	322.6	323.9	324.6	325.2
30°	1472.7	1318.5	658.3	327.2	314.2	310.9	309.0	310.3	311.6	312.2	313.5
32.5°	1531.2	1353.0	604.3	330.4	307.0	301.2	294.7	293.4	293.4	296.0	297.9
35°	1596.3	1390.7	562.7	341.5	303.1	286.9	276.5	270.6	271.3	275.2	277.1
37.5°	1674.4	1436.3	532.1	351.3	300.5	270.6	253.7	246.5	242.0	246.5	245.2
40°	1776.5	1503.3	510.0	359.1	297.3	251.7	229.0	217.3	208.8	211.4	210.1
42.5°	1926.7	1608.7	501.5	359.7	290.1	229.6	203.6	188.0	175.6	176.3	173.7
45°	2137.5	1775.2	545.1	351.3	274.5	205.6	176.9	156.1	148.3	146.4	143.8
47.5°	2426.3	2017.8	645.9	333.7	251.7	182.1	150.9	133.3	127.5	124.2	122.3
50°	2813.4	2329.4	757.8	314.2	229.0	160.0	129.4	118.4	114.5	111.2	110.6
52.5°	3262.2	2645.5	849.5	294.7	206.2	140.5	115.8	109.3	106.0	103.4	102.8
55°	3674.0	2863.4	844.3	273.9	184.1	124.9	106.0	102.1	98.2	95.6	94.3
57.5°	3930.2	2894.0	696.0	251.1	158.7	112.5	96.9	94.3	89.8	86.5	85.9
60°	4048.0	2719.7	487.9	221.2	133.3	100.8	87.2	85.9	80.0	75.5	74.2
62.5°	4069.4	2395.7	325.2	184.1	111.2	89.8	77.4	75.5	67.7	59.8	55.9
65°	3982.3	1932.6	225.1	143.8	95.0	78.1	66.3	62.4	54.0	46.2	43.6
67.5°	3706.5	1356.9	156.8	103.4	80.7	61.8	52.7	51.4	44.9	38.4	36.4
70°	3201.0	773.4	104.7	77.4	63.7	42.3	41.6	42.9	36.4	31.2	28.6
72.5°	2454.3	353.9	65.0	56.6	43.6	28.6	33.2	33.8	28.0	23.4	20.8
75°	1444.7	151.6	41.0	36.4	22.1	18.9	24.1	24.7	18.9	15.0	13.0
77.5°	491.8	57.2	26.0	21.5	11.1	10.4	15.6	15.6	10.4	5.9	4.6
80°	111.9	21.5	13.0	8.5	5.2	4.6	5.2	4.6	2.6	0.7	0.0
82.5°	31.9	8.5	5.2	3.3	2.0	2.0	0.7	0.0	0.0	0.0	0.0
85°	9.1	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.7	0.0	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	0.0

(END OF REPORT)