

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: P940758

Luminaire Tested: **GALN-SB4A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11245 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

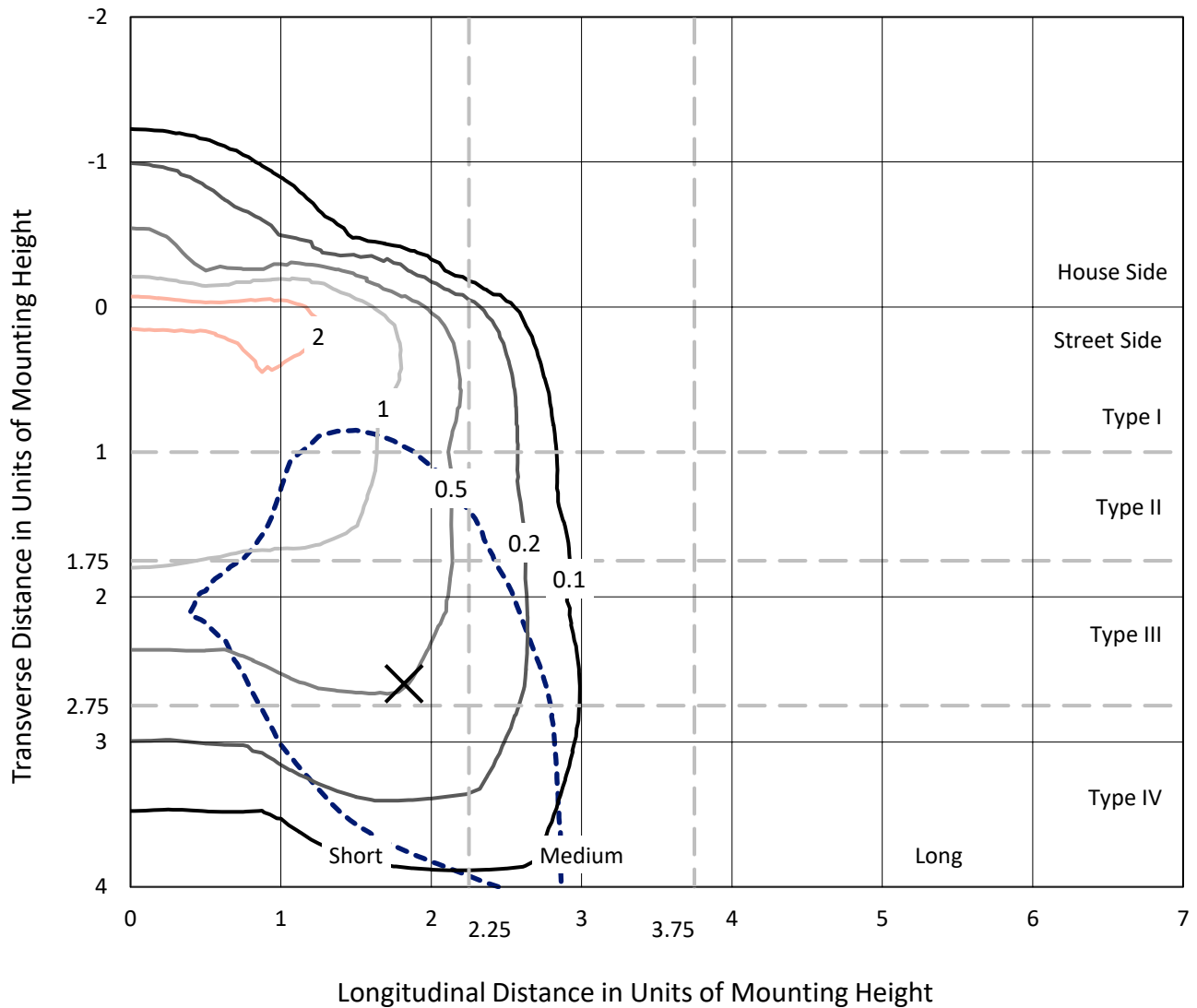
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

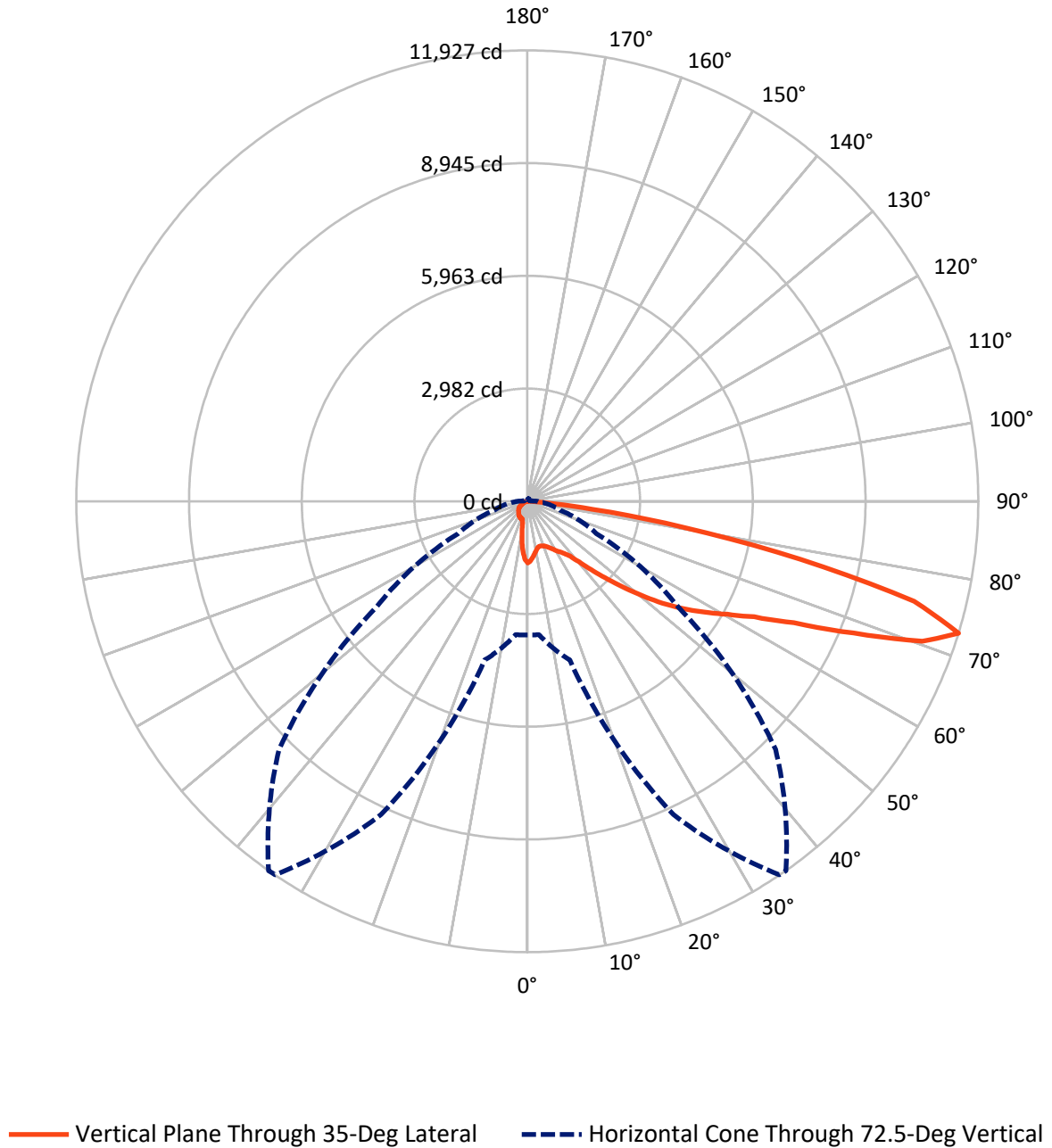
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.6	0.0	1265.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9979.4	0.0	9979.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	11245.0	0.0	11245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	1.2
10°-20°	313.3	2.8
20°-30°	508.9	4.5
30°-40°	849.2	7.6
40°-50°	1606.7	14.3
50°-60°	2553.0	22.7
60°-70°	3158.2	28.1
70°-80°	1963.2	17.5
80°-90°	158.7	1.4
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°	11245.0	100.0
0°-180°	11245.0	100.0

Coefficient of Utilization



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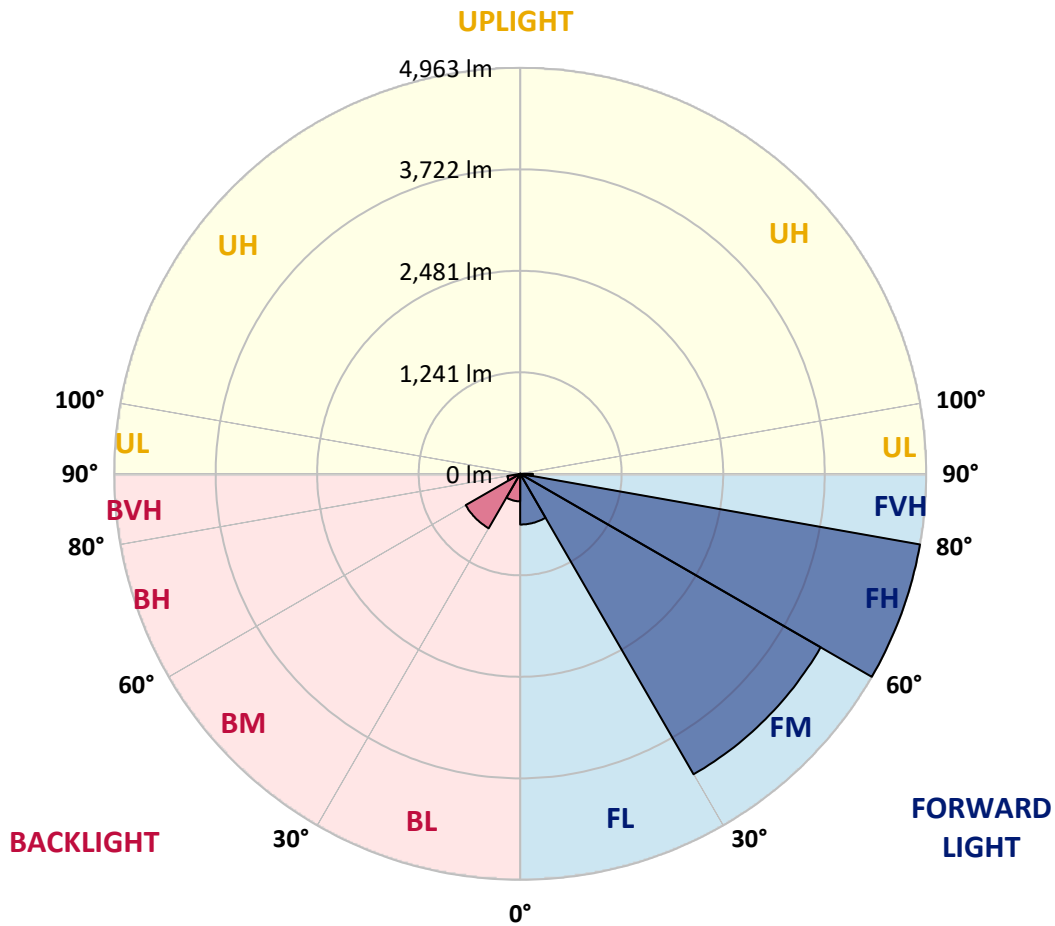
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.9	5.5			
FM (30°-60°)	4240.5	37.7			
FH (60°-80°)	4962.6	44.1			G2/5000
FVH (80°-90°)	156.5	1.4			G2/225
BL (0°-30°)	336.3	3.0	B1/500		
BM (30°-60°)	768.3	6.8	B1/1000		
BH (60°-80°)	158.8	1.4	B1/500		G1/500
BVH (80°-90°)	2.2	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°	34°	35°	45°	55°	65°	75°	85°
0°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
2.5°	1557.3	1570.5	1572.9	1577.0	1577.0	1582.0	1590.2	1601.8	1620.7	1630.6	1637.2
5°	1435.3	1445.2	1457.6	1467.5	1486.4	1488.9	1521.0	1552.3	1596.0	1629.0	1652.0
7.5°	1312.6	1324.1	1340.6	1364.5	1389.2	1396.6	1445.2	1497.9	1567.2	1629.0	1667.7
10°	1226.0	1226.9	1241.7	1265.6	1305.1	1314.2	1373.5	1448.5	1535.0	1619.1	1682.5
12.5°	1177.4	1183.2	1189.8	1207.9	1245.8	1251.6	1315.0	1403.2	1502.9	1613.3	1699.8
15°	1177.4	1181.5	1185.7	1194.7	1225.2	1230.2	1286.2	1374.4	1486.4	1615.8	1727.8
17.5°	1189.8	1196.4	1193.1	1203.8	1235.9	1239.2	1288.7	1366.1	1485.6	1631.4	1770.7
20°	1219.4	1224.4	1217.8	1224.4	1256.5	1263.1	1314.2	1381.8	1499.6	1658.6	1824.2
22.5°	1266.4	1268.9	1253.2	1258.2	1291.1	1299.4	1358.7	1426.3	1533.4	1702.3	1895.9
25°	1325.7	1330.7	1306.8	1312.6	1343.9	1353.8	1422.1	1493.0	1586.9	1762.4	1987.4
27.5°	1394.1	1396.6	1376.0	1375.2	1415.5	1429.6	1498.8	1575.4	1658.6	1838.2	2102.7
30°	1472.4	1479.8	1460.0	1456.7	1507.8	1519.4	1587.8	1676.7	1764.1	1951.9	2266.7
32.5°	1534.2	1540.0	1528.4	1536.7	1588.6	1597.6	1695.7	1820.1	1929.7	2113.4	2490.0
35°	1623.2	1626.5	1600.1	1614.9	1674.3	1697.3	1843.2	2021.2	2138.2	2316.1	2781.7
37.5°	1945.4	1945.4	1833.3	1760.0	1816.8	1837.4	2045.0	2274.1	2395.2	2588.0	3149.1
40°	2391.1	2383.7	2219.7	2069.8	2062.4	2102.7	2332.6	2593.0	2727.3	2914.3	3562.8
42.5°	2866.5	2855.0	2631.7	2483.4	2458.7	2472.7	2664.7	2986.0	3122.8	3312.3	4007.7
45°	3288.4	3285.1	3080.8	2881.4	2836.9	2881.4	3079.1	3445.8	3543.8	3743.2	4451.8
47.5°	3641.9	3641.9	3492.7	3362.5	3339.5	3365.8	3640.2	3955.8	3946.7	4202.2	4884.4
50°	4048.9	4045.6	3903.9	3847.9	3871.8	3908.8	4286.2	4493.0	4363.7	4652.9	5270.8
52.5°	4334.0	4353.8	4305.2	4296.1	4418.0	4482.3	4942.1	5018.7	4736.9	5080.5	5560.0
55°	4559.8	4582.8	4638.9	4702.3	4937.1	5021.2	5577.3	5517.2	5049.2	5451.3	5726.5
57.5°	4879.4	4846.5	4933.0	5058.2	5438.1	5539.4	6192.8	5987.7	5300.5	5752.0	5744.6
60°	5267.5	5272.5	5287.3	5445.5	5938.2	6068.4	6799.3	6432.6	5462.0	5936.6	5543.6
62.5°	5733.9	5741.3	5771.8	6014.9	6609.7	6732.5	7445.2	6796.8	5536.1	5884.7	5024.5
65°	5701.7	5733.1	6073.4	6904.7	7630.6	7751.7	8199.1	7052.2	5424.1	5410.1	4090.9
67.5°	5194.2	5245.3	5814.6	7967.6	9169.8	9304.9	9110.4	7102.5	4940.4	4207.1	2668.8
70°	4528.4	4546.6	5231.3	8923.4	10952.0	11088.7	9926.2	6549.6	3749.0	2346.6	1195.6
72.5°	3536.4	3540.5	4343.9	9145.0	11919.3	11926.7	9285.9	4862.1	2016.2	901.4	415.3
75°	2526.2	2501.5	2909.4	7416.4	10486.4	10570.5	6961.6	2280.7	770.4	426.0	206.8
77.5°	1354.6	1381.8	1646.3	4398.3	7244.2	7387.6	3798.4	657.5	392.2	290.0	136.8
80°	418.6	441.6	674.8	2013.7	4103.3	4189.8	1408.1	292.5	273.6	206.8	89.8
82.5°	131.8	136.8	314.7	846.2	1703.1	1742.7	407.9	165.6	187.0	136.8	52.7
85°	37.9	38.7	140.1	315.6	421.0	429.3	114.5	64.3	107.1	84.9	27.2
87.5°	4.1	13.2	52.7	52.7	37.1	36.3	12.4	14.0	30.5	10.7	4.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8	1629.8
2.5°	1633.1	1633.9	1623.2	1605.1	1585.3	1568.8	1548.2	1531.7	1520.2	1516.9	1522.7
5°	1644.6	1638.8	1608.4	1553.1	1487.2	1430.4	1366.9	1316.7	1283.7	1269.7	1274.7
7.5°	1661.9	1645.4	1578.7	1469.9	1343.9	1231.8	1118.1	1029.9	973.9	945.9	950.0
10°	1676.7	1643.8	1529.3	1349.6	1156.8	987.1	833.8	727.5	668.2	640.2	641.0
12.5°	1690.7	1643.0	1465.0	1207.1	945.9	738.3	595.7	543.0	526.5	520.7	519.1
15°	1717.1	1645.4	1384.2	1043.9	735.8	557.8	505.9	505.1	508.4	506.7	505.9
17.5°	1753.4	1647.9	1292.8	870.9	567.7	491.9	489.4	496.8	501.8	499.3	498.5
20°	1800.3	1657.8	1195.6	699.5	487.8	475.4	481.2	487.8	491.9	487.8	487.0
22.5°	1866.3	1675.1	1089.3	561.9	462.2	465.5	470.5	477.9	482.0	476.2	475.4
25°	1947.0	1702.3	984.6	488.6	449.9	454.0	461.4	469.7	474.6	468.8	468.0
27.5°	2051.6	1746.0	888.2	472.1	437.5	440.0	450.7	463.1	469.7	462.2	462.2
30°	2203.2	1817.6	805.0	479.5	430.1	424.3	439.2	456.5	463.9	457.3	456.5
32.5°	2404.3	1919.0	753.9	491.1	426.8	406.2	420.2	442.5	454.8	450.7	450.7
35°	2668.0	2073.1	734.1	504.3	424.3	387.3	397.1	421.0	442.5	446.6	446.6
37.5°	2987.7	2287.3	739.9	510.0	416.9	371.6	376.5	397.1	425.2	438.3	441.6
40°	3351.0	2536.9	772.9	504.3	408.7	358.4	359.2	374.9	399.6	419.4	426.0
42.5°	3725.9	2828.6	833.8	482.8	401.3	346.9	344.4	355.1	371.6	385.6	391.4
45°	4082.7	3128.5	894.0	453.2	392.2	335.3	329.6	333.7	337.0	342.8	346.1
47.5°	4394.1	3339.5	876.7	426.0	379.8	322.2	312.3	310.6	300.7	299.9	299.1
50°	4609.2	3385.6	778.6	398.8	361.7	307.3	291.7	281.8	264.5	256.2	257.1
52.5°	4677.6	3203.5	636.1	371.6	332.1	287.6	265.3	249.7	228.2	220.8	220.0
55°	4586.9	2846.8	508.4	338.6	290.9	261.2	236.5	215.9	198.6	189.5	189.5
57.5°	4365.3	2392.8	402.1	299.9	247.2	231.5	206.8	186.2	171.4	162.3	160.7
60°	3997.8	1900.0	318.0	253.8	210.9	199.4	173.9	160.7	147.5	136.8	134.3
62.5°	3440.0	1356.2	249.7	201.0	176.3	163.1	148.3	138.4	122.8	107.9	105.5
65°	2684.4	829.7	192.8	147.5	141.7	135.1	126.1	117.0	98.1	83.2	80.7
67.5°	1693.2	393.0	137.6	111.2	112.1	108.8	104.6	97.2	83.2	70.0	68.4
70°	745.7	190.3	90.6	84.9	83.2	83.2	86.5	84.0	70.9	58.5	56.0
72.5°	253.8	102.2	67.6	64.3	60.1	59.3	72.5	70.0	56.9	45.3	42.8
75°	132.7	68.4	49.4	46.1	36.3	43.7	57.7	54.4	40.4	29.7	27.2
77.5°	86.5	48.6	33.8	29.7	20.6	28.8	42.8	37.9	23.9	14.8	13.2
80°	54.4	32.1	19.8	14.0	9.9	15.7	23.1	16.5	9.1	3.3	2.5
82.5°	28.8	16.5	7.4	4.9	4.1	4.9	5.8	4.1	1.6	0.0	0.0
85°	11.5	5.8	2.5	1.6	0.8	0.0	1.6	0.8	0.0	0.0	0.0
87.5°	4.1	0.8	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)