

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: P945571

Luminaire Tested: **GALN-SB1C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6907 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

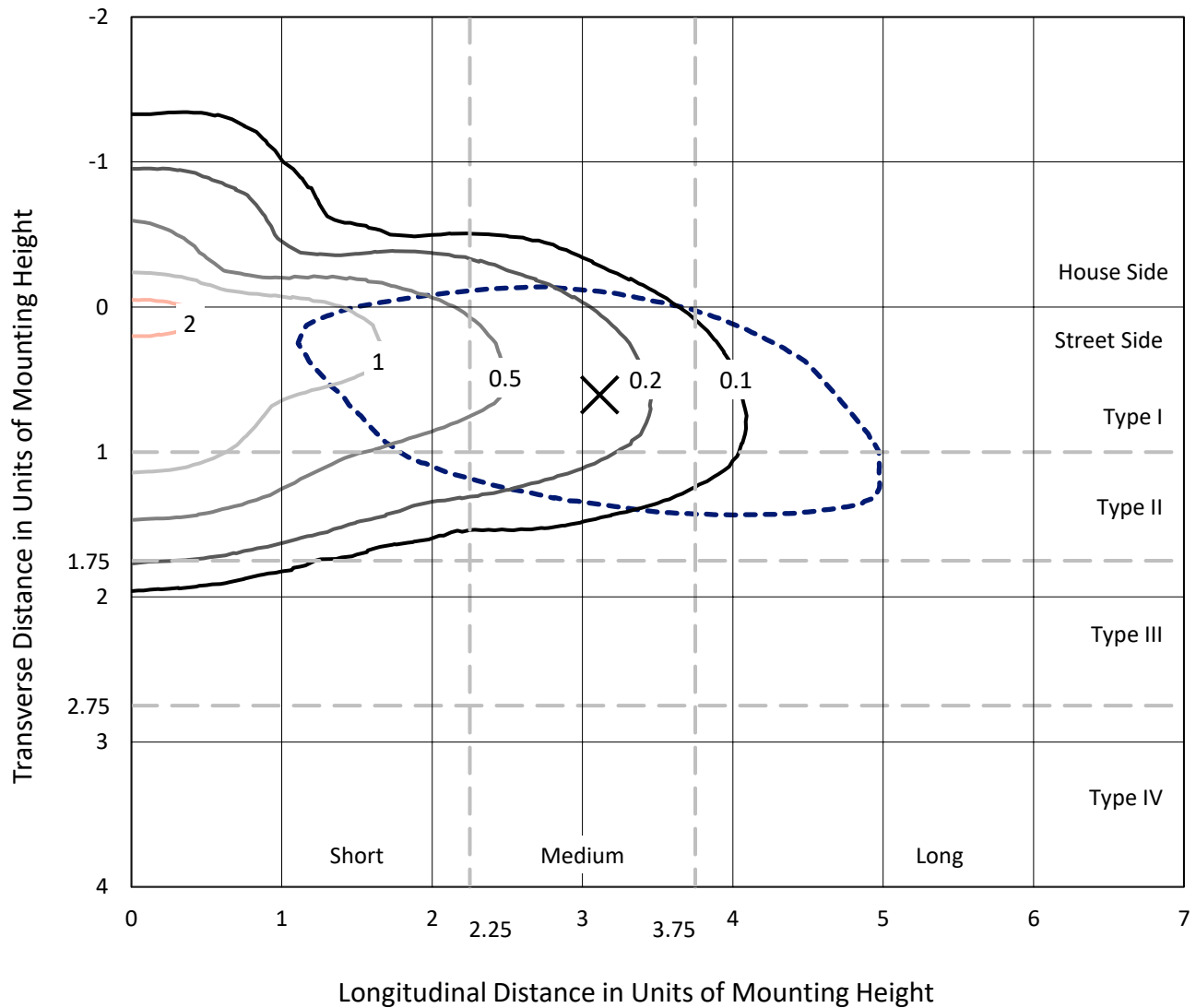


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Iso-Footcandle Lines of Horizontal Illumination

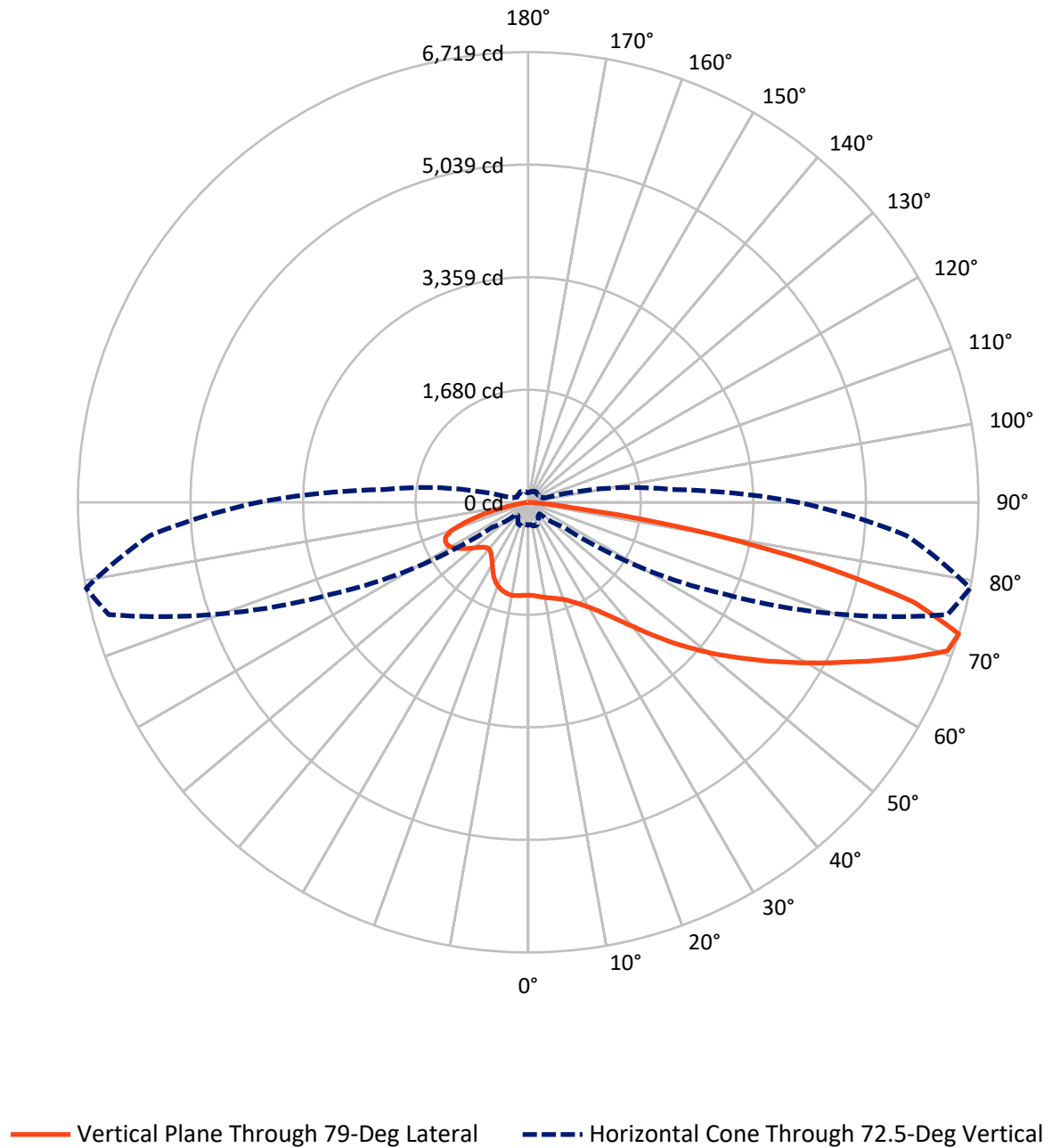
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1519.9	0.0	1519.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5387.1	0.0	5387.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	6907.0	0.0	6907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.8
10°-20°	329.1	4.8
20°-30°	531.0	7.7
30°-40°	796.9	11.5
40°-50°	1130.4	16.4
50°-60°	1427.6	20.7
60°-70°	1449.9	21.0
70°-80°	988.2	14.3
80°-90°	128.2	1.9
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°	6907.0	100.0
0°-180°	6907.0	100.0

Coefficient of Utilization



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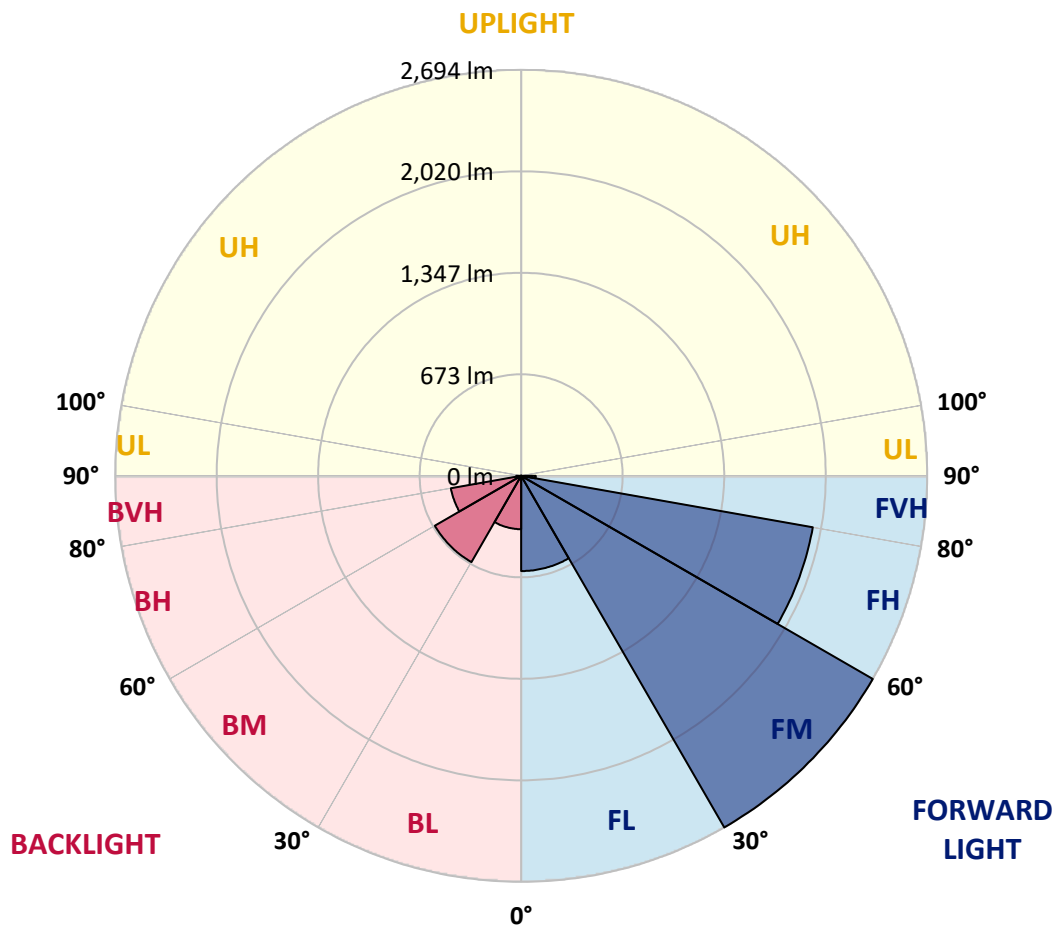
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.8	9.1			
FM	(30°-60°)	2693.9	39.0			
FH	(60°-80°)	1964.8	28.4			G2/5000
FVH	(80°-90°)	96.6	1.4			G1/100
BL	(0°-30°)	354.0	5.1	B1/500		
BM	(30°-60°)	661.0	9.6	B1/1000		
BH	(60°-80°)	473.2	6.9	B1/500		G1/500
BVH	(80°-90°)	31.6	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5
2.5°	1387.2	1380.7	1384.7	1383.2	1385.1	1387.2	1388.0	1389.1	1392.7	1392.4	1392.0
5°	1384.3	1377.7	1383.2	1381.4	1386.1	1391.3	1395.6	1399.7	1405.5	1408.1	1404.4
7.5°	1378.1	1373.7	1379.2	1384.7	1393.5	1401.1	1407.3	1416.5	1424.9	1426.3	1428.9
10°	1341.9	1338.7	1351.4	1365.7	1389.8	1410.6	1424.1	1434.7	1443.9	1445.3	1449.0
12.5°	1304.3	1300.3	1314.5	1333.9	1373.0	1410.6	1439.1	1453.0	1461.0	1465.8	1471.3
15°	1298.1	1294.8	1302.8	1319.7	1352.2	1400.8	1449.4	1474.9	1481.9	1487.4	1489.5
17.5°	1328.1	1321.8	1325.1	1331.0	1350.0	1391.6	1457.4	1499.8	1510.4	1516.2	1516.2
20°	1397.5	1388.7	1383.6	1371.9	1368.6	1393.1	1456.7	1529.7	1543.6	1550.9	1552.8
22.5°	1489.9	1484.1	1473.1	1443.5	1411.4	1411.0	1470.5	1568.1	1594.0	1601.0	1596.6
25°	1601.7	1592.9	1579.1	1538.9	1477.1	1446.4	1493.9	1617.1	1660.5	1662.4	1649.6
27.5°	1730.3	1717.2	1698.2	1645.2	1561.9	1502.0	1529.7	1673.3	1736.9	1736.2	1709.9
30°	1865.9	1852.7	1832.6	1768.3	1663.5	1576.9	1579.4	1734.0	1827.5	1823.5	1778.5
32.5°	1964.9	1955.0	1951.0	1901.3	1780.4	1665.3	1636.4	1801.2	1939.3	1935.6	1872.8
35°	2040.9	2028.1	2032.8	2007.6	1907.9	1764.3	1706.2	1881.2	2075.2	2074.8	1996.7
37.5°	2116.1	2104.8	2108.8	2092.0	2025.9	1890.0	1791.3	1979.1	2243.6	2251.7	2146.4
40°	2184.8	2172.8	2188.8	2173.1	2117.6	2023.7	1888.1	2089.8	2438.7	2454.1	2327.7
42.5°	2226.1	2216.6	2243.3	2243.6	2197.2	2136.6	1994.5	2211.8	2664.5	2698.9	2550.5
45°	2240.3	2237.1	2277.2	2285.6	2267.7	2202.0	2090.2	2344.8	2907.8	2969.2	2804.4
47.5°	2225.0	2218.8	2274.3	2305.4	2319.6	2232.7	2169.5	2488.8	3156.3	3246.2	3081.4
50°	2147.5	2135.5	2218.1	2283.5	2334.2	2252.8	2249.5	2655.0	3438.7	3537.0	3359.8
52.5°	2008.3	1999.2	2093.1	2206.7	2302.1	2262.6	2339.4	2836.6	3706.9	3834.0	3645.1
55°	1830.4	1818.4	1921.8	2070.1	2222.1	2259.3	2429.2	3039.7	4023.3	4152.2	3940.0
57.5°	1548.4	1524.3	1655.0	1830.4	2091.6	2255.3	2522.8	3241.8	4344.8	4499.3	4254.5
60°	1137.0	1101.2	1261.6	1469.4	1836.6	2216.2	2638.6	3468.3	4730.6	4869.8	4598.0
62.5°	662.0	641.2	746.1	940.1	1384.3	1986.1	2703.6	3731.7	5109.8	5256.0	4935.6
65°	514.1	508.2	517.3	532.3	770.5	1487.0	2503.0	3988.6	5592.1	5694.4	5287.4
67.5°	470.2	465.8	469.8	441.7	390.9	828.3	1980.2	4053.6	6108.7	6170.8	5595.4
70°	418.0	412.8	426.0	401.9	307.6	376.7	1279.5	3817.6	6519.7	6636.3	5829.6
72.5°	340.5	334.7	365.4	354.4	259.0	241.9	642.7	3256.8	6476.6	6718.5	5661.9
75°	261.6	258.3	294.8	304.0	211.2	190.3	308.4	2420.8	5699.5	5943.2	4879.7
77.5°	203.1	200.6	219.2	252.5	170.3	147.6	189.6	1535.6	4295.1	4337.8	3362.7
80°	152.4	145.0	162.2	195.5	132.6	107.8	128.6	895.5	2714.9	2461.0	1463.6
82.5°	95.4	91.7	106.0	130.4	93.5	74.2	83.7	494.7	1088.0	640.8	282.4
85°	54.4	53.0	57.7	74.5	50.8	42.7	47.9	218.5	198.8	136.6	85.1
87.5°	21.9	21.2	26.3	33.2	18.6	15.7	16.8	52.6	43.8	40.6	28.1
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°	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5	1386.5
2.5°	1390.5	1390.5	1385.4	1377.4	1368.2	1362.4	1352.9	1350.3	1340.5	1337.6	1342.3
5°	1407.3	1404.4	1388.7	1366.1	1335.0	1306.5	1275.1	1255.4	1227.6	1217.7	1225.0
7.5°	1428.5	1420.5	1393.5	1343.8	1278.7	1214.8	1148.3	1097.9	1049.7	1032.5	1034.7
10°	1447.9	1436.6	1390.5	1303.6	1191.1	1080.3	974.4	900.2	844.0	820.9	826.1
12.5°	1467.3	1446.4	1371.2	1236.7	1066.5	916.3	803.4	745.7	711.0	683.2	692.3
15°	1485.5	1456.3	1341.2	1147.2	929.8	777.5	694.2	648.1	620.4	602.1	605.4
17.5°	1506.7	1464.7	1296.3	1033.6	799.8	681.4	613.4	585.7	580.2	578.0	579.4
20°	1536.3	1472.4	1237.1	906.4	704.0	604.7	569.6	567.0	566.7	565.6	569.2
22.5°	1568.1	1481.5	1158.9	791.0	622.6	556.8	550.6	545.5	542.2	541.8	545.8
25°	1605.7	1484.4	1061.0	696.4	553.1	534.1	526.8	519.2	517.0	517.0	519.2
27.5°	1642.3	1474.6	947.0	614.2	514.1	513.3	503.8	501.3	500.9	502.0	504.9
30°	1678.8	1455.9	833.7	538.2	491.4	491.4	488.1	489.9	491.4	495.1	497.6
32.5°	1728.1	1436.2	739.1	481.9	471.7	468.0	471.3	475.0	476.4	481.2	485.2
35°	1800.5	1422.3	663.8	451.2	451.2	446.5	448.3	447.6	444.3	442.1	447.2
37.5°	1896.2	1421.6	601.7	437.0	434.0	433.3	433.7	428.9	416.1	400.8	401.2
40°	2011.3	1441.3	553.9	427.1	424.9	429.3	427.1	414.3	379.2	352.6	351.8
42.5°	2165.8	1497.6	523.2	415.0	421.6	427.1	418.3	374.1	350.4	332.5	331.7
45°	2347.8	1588.9	507.5	402.3	415.4	422.0	379.6	360.2	341.2	319.7	318.2
47.5°	2553.8	1704.0	503.8	390.2	401.5	405.5	363.2	354.4	332.8	309.5	307.6
50°	2778.1	1840.3	513.7	375.9	381.4	367.5	357.7	349.6	327.4	304.3	301.8
52.5°	3010.1	1990.4	533.4	356.6	361.3	346.0	355.5	348.5	324.1	293.0	290.8
55°	3238.1	2141.7	552.4	333.9	340.9	326.6	349.3	344.2	309.1	274.0	272.2
57.5°	3469.8	2292.2	571.0	313.8	321.1	308.0	339.4	332.5	292.3	256.5	255.7
60°	3710.5	2438.4	579.8	294.5	299.6	290.8	324.4	312.4	273.3	238.6	237.5
62.5°	3935.9	2560.0	565.6	275.1	278.4	274.7	304.7	288.6	254.3	218.5	218.1
65°	4162.1	2632.4	521.7	256.1	256.8	255.0	276.9	263.1	232.0	200.9	198.8
67.5°	4367.1	2672.9	451.9	235.7	233.8	233.1	251.0	235.3	210.4	183.4	181.2
70°	4410.5	2569.9	345.3	211.5	211.5	209.7	222.5	206.4	186.7	164.8	164.0
72.5°	4028.4	2161.8	245.2	184.1	187.1	183.4	194.0	180.5	162.6	148.0	143.6
75°	3248.4	1585.3	178.3	156.0	161.1	154.9	164.8	155.3	139.9	139.6	125.7
77.5°	2231.9	980.2	129.3	128.6	132.3	124.2	135.5	130.4	116.5	110.3	103.4
80°	952.5	390.9	94.3	99.4	99.4	92.1	105.2	106.7	94.6	91.7	91.7
82.5°	189.6	111.1	66.1	68.3	64.3	62.1	74.5	82.6	114.0	126.8	127.1
85°	57.0	40.9	39.8	37.3	32.9	33.2	43.8	82.9	102.3	58.5	50.4
87.5°	15.7	10.2	10.6	8.4	6.9	9.1	15.0	62.8	34.3	14.6	12.4
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)