

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: P526698

Luminaire Tested: **GALN-SA1C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4792 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57
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



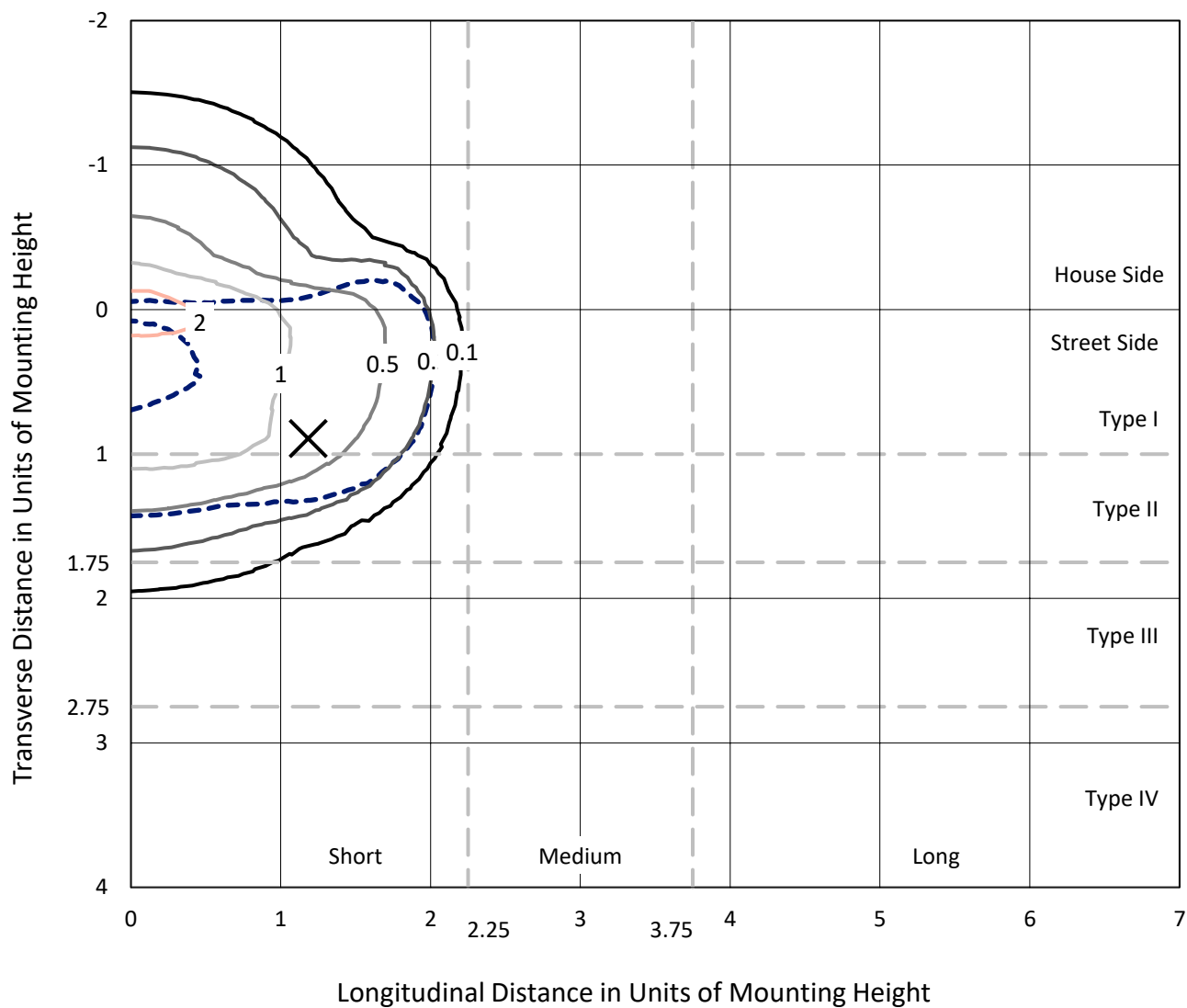
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



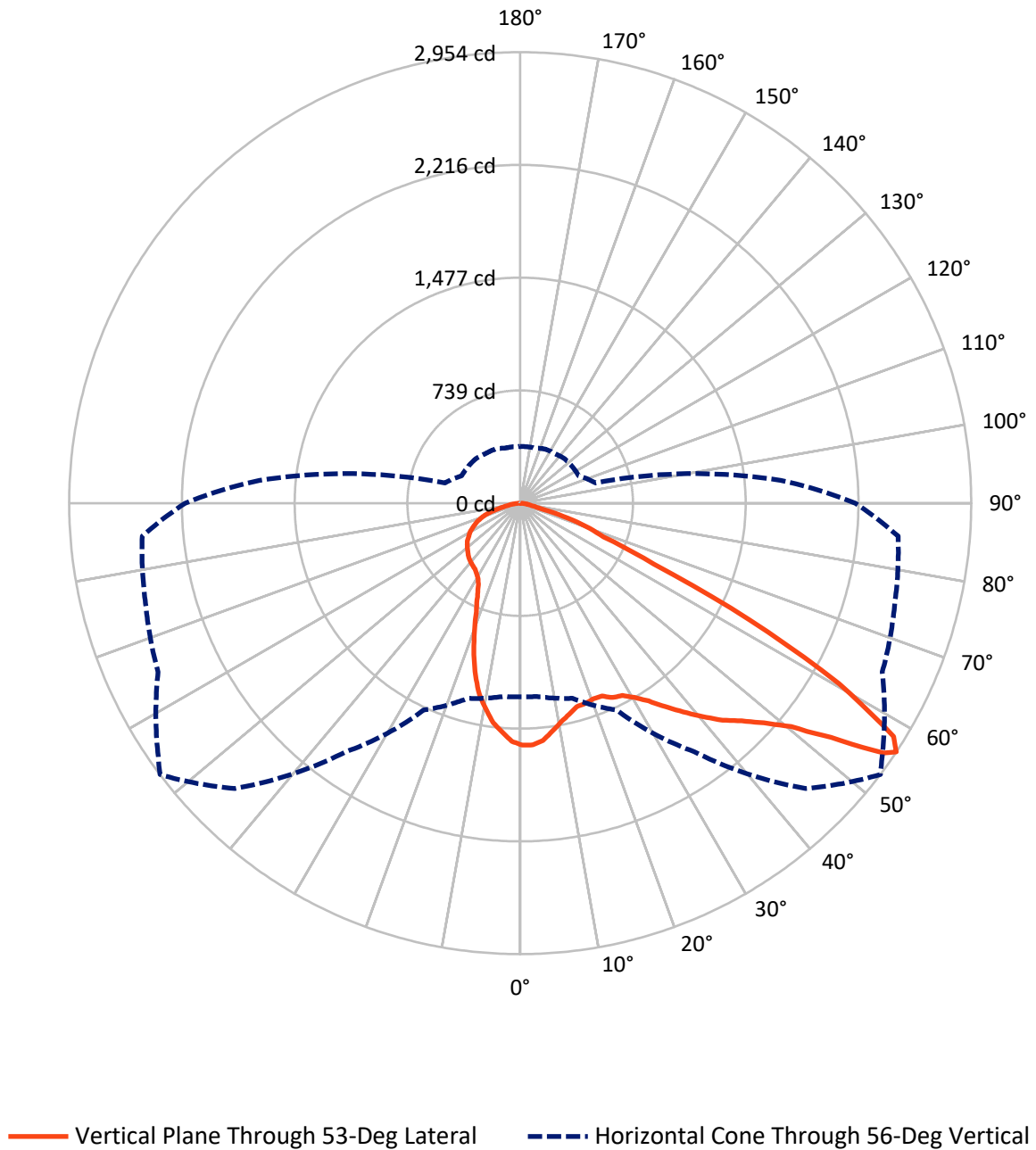
Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1398.4	0.0	1398.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3393.6	0.0	3393.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	4792.0	0.0	4792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	2.9
10°-20°	350.5	7.3
20°-30°	516.9	10.8
30°-40°	738.5	15.4
40°-50°	1016.5	21.2
50°-60°	1201.2	25.1
60°-70°	640.2	13.4
70°-80°	162.4	3.4
80°-90°	25.3	0.5
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°	4792.0	100.0
0°-180°	4792.0	100.0

Coefficient of Utilization



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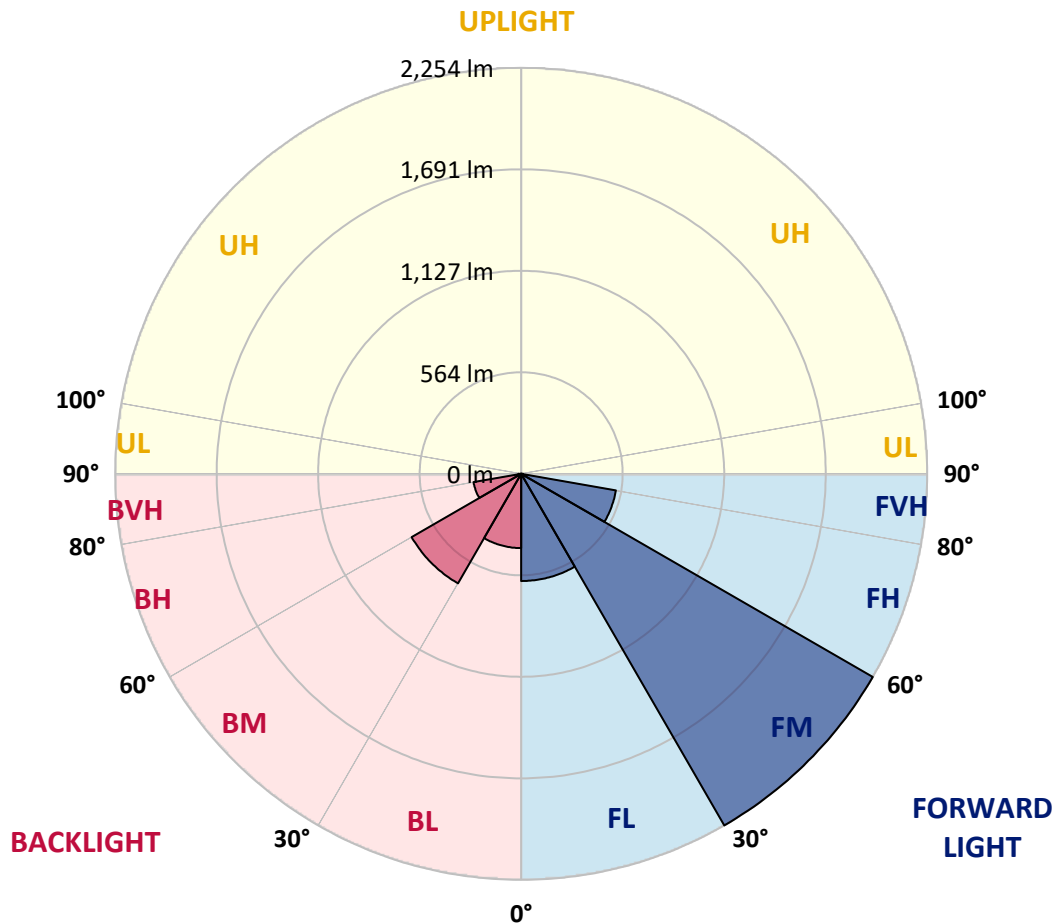
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.3	12.4			
FM	(30°-60°)	2254.1	47.0			
FH	(60°-80°)	534.0	11.1			G0/660
FVH	(80°-90°)	10.2	0.2			G1/100
BL	(0°-30°)	412.4	8.6	B1/500		
BM	(30°-60°)	702.2	14.7	B1/1000		
BH	(60°-80°)	268.6	5.6	B1/500		G1/500
BVH	(80°-90°)	15.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4
2.5°	1565.7	1552.2	1560.2	1557.1	1582.3	1589.7	1586.0	1589.1	1603.2	1596.4	1582.3
5°	1463.1	1482.1	1485.8	1495.0	1509.8	1538.7	1561.4	1567.6	1574.3	1605.7	1602.6
7.5°	1369.6	1382.5	1375.8	1402.8	1434.8	1481.5	1509.2	1514.1	1576.2	1593.4	1606.3
10°	1310.6	1297.7	1328.4	1335.8	1372.1	1425.6	1458.7	1479.0	1535.6	1603.8	1611.8
12.5°	1255.9	1251.6	1270.0	1290.9	1331.5	1386.8	1420.6	1428.6	1515.9	1587.8	1625.3
15°	1215.3	1210.4	1228.8	1244.2	1291.5	1340.7	1383.8	1406.5	1494.4	1578.6	1613.7
17.5°	1183.4	1182.7	1193.2	1220.8	1269.4	1310.6	1380.1	1381.3	1483.3	1592.8	1623.5
20°	1181.5	1180.9	1182.7	1213.5	1257.7	1308.1	1368.4	1379.4	1483.3	1582.9	1624.1
22.5°	1196.9	1187.0	1198.1	1217.8	1249.7	1312.4	1372.7	1397.3	1519.0	1631.5	1651.8
25°	1221.5	1223.9	1230.1	1236.8	1255.3	1322.3	1410.8	1431.1	1560.8	1673.3	1689.9
27.5°	1266.3	1265.1	1267.6	1271.3	1287.2	1331.5	1426.2	1478.4	1648.1	1747.7	1731.1
30°	1332.1	1327.8	1337.6	1350.6	1335.8	1361.0	1477.2	1516.5	1729.2	1822.7	1777.2
32.5°	1391.7	1407.7	1426.2	1431.7	1413.9	1418.8	1544.8	1584.8	1796.8	1914.9	1833.7
35°	1466.1	1479.0	1503.6	1520.8	1517.8	1503.0	1637.0	1689.9	1894.6	1982.5	1893.4
37.5°	1538.7	1554.0	1594.6	1645.6	1617.3	1610.6	1735.4	1779.0	1924.7	2018.8	1937.0
40°	1655.5	1654.8	1724.9	1751.4	1776.6	1764.9	1837.4	1852.2	1940.7	2010.8	1938.2
42.5°	1792.5	1783.9	1855.2	1896.4	1929.0	1930.2	1943.8	1938.9	1948.1	1970.2	1925.3
45°	1922.9	1941.3	2013.2	2087.0	2119.6	2123.3	2033.5	2024.3	1961.0	1958.5	1900.7
47.5°	2082.1	2086.4	2145.4	2242.5	2318.1	2292.3	2149.7	2129.4	2017.5	2036.6	1941.9
50°	2091.3	2123.3	2176.1	2290.5	2522.8	2516.1	2300.3	2262.2	2108.5	2147.2	2056.9
52.5°	1898.3	1890.9	1953.6	2140.5	2507.5	2738.6	2549.9	2458.9	2304.0	2274.5	2243.1
55°	1446.5	1463.7	1519.0	1707.7	2177.4	2741.7	2889.8	2815.5	2513.0	2462.6	2426.3
56°	1268.8	1271.3	1323.5	1495.6	1986.8	2643.9	2954.4	2894.1	2616.9	2540.1	2484.7
57.5°	1051.8	1037.7	1064.7	1158.8	1677.0	2437.4	2883.7	2942.7	2738.6	2623.7	2546.8
60°	828.0	825.0	813.9	831.1	1059.8	1836.2	2400.5	2533.3	2726.3	2545.0	2439.2
62.5°	676.2	660.8	683.0	707.6	736.4	1139.1	1686.8	1764.9	2164.5	2031.7	1832.5
65°	524.4	517.0	544.6	624.6	641.8	723.5	960.8	1021.1	1278.0	1255.3	1105.3
67.5°	360.8	362.1	386.0	507.8	595.1	587.7	588.3	619.6	667.0	495.5	431.5
70°	228.7	228.1	241.0	327.0	478.9	483.8	459.2	450.0	426.6	258.2	273.6
72.5°	146.9	142.6	149.4	180.7	247.7	286.5	295.1	300.6	247.1	202.9	220.1
75°	83.0	78.7	76.2	84.2	97.7	113.1	124.2	127.9	143.2	153.7	162.9
77.5°	25.2	22.7	27.7	36.9	48.6	65.2	79.3	81.8	96.5	108.8	118.0
80°	11.1	12.3	17.2	24.6	34.4	46.1	55.9	59.6	69.5	78.7	81.1
82.5°	6.8	7.4	11.7	16.6	24.0	32.6	40.0	41.2	51.0	58.4	60.2
85°	2.5	3.1	6.1	9.8	15.4	20.9	20.9	22.7	20.9	20.9	22.7
87.5°	0.0	0.0	0.6	1.2	1.2	1.8	2.5	2.5	3.1	3.7	4.3
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°	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4
2.5°	1589.7	1586.6	1581.7	1563.9	1562.0	1556.5	1525.8	1520.8	1525.8	1511.0	1512.2
5°	1586.6	1595.8	1558.9	1541.1	1507.9	1484.0	1456.3	1442.2	1416.9	1401.0	1418.8
7.5°	1600.1	1596.4	1550.3	1511.6	1461.8	1401.0	1352.4	1324.7	1280.5	1268.2	1277.4
10°	1595.2	1575.5	1521.5	1470.4	1376.4	1322.9	1244.2	1168.0	1126.2	1104.7	1101.6
12.5°	1588.5	1582.9	1492.6	1404.7	1305.7	1193.2	1082.5	1010.6	942.4	912.9	917.2
15°	1596.4	1549.7	1438.5	1327.2	1195.6	1048.1	928.9	836.0	788.7	769.6	769.6
17.5°	1592.8	1533.7	1412.6	1240.5	1073.9	899.3	768.4	712.5	692.8	692.8	698.3
20°	1594.6	1544.2	1360.4	1153.8	930.1	757.3	662.1	641.8	650.4	653.5	656.5
22.5°	1605.1	1509.8	1309.4	1058.6	796.7	647.9	601.2	601.8	617.2	633.8	630.7
25°	1618.0	1496.2	1247.3	963.9	694.6	594.4	579.7	577.8	589.5	598.1	599.4
27.5°	1606.9	1472.9	1184.0	845.9	611.0	558.8	555.7	556.9	560.6	577.8	572.3
30°	1643.2	1479.6	1104.7	746.9	564.9	547.1	543.4	541.6	547.1	552.0	547.7
32.5°	1688.0	1455.7	1045.7	651.6	542.2	538.5	531.1	528.7	531.7	526.8	529.3
35°	1707.7	1451.4	968.8	583.4	524.4	521.3	517.0	516.4	517.0	512.7	509.0
37.5°	1718.8	1471.7	880.9	552.0	513.3	516.4	506.5	505.3	494.2	496.7	498.5
40°	1737.8	1440.3	809.6	521.9	506.5	500.4	491.8	489.9	482.6	478.3	482.6
42.5°	1710.2	1431.1	739.5	509.0	496.7	489.9	483.8	473.3	470.9	467.2	464.7
45°	1688.0	1378.2	676.8	493.0	485.0	481.3	469.7	458.6	449.4	453.1	447.5
47.5°	1704.6	1359.8	614.7	479.5	469.0	464.7	453.1	444.4	435.2	430.9	429.7
50°	1771.0	1394.2	562.5	469.7	455.5	453.1	437.7	427.9	419.2	416.2	417.4
52.5°	1929.6	1488.3	526.8	449.4	442.6	431.5	422.9	410.6	405.1	395.3	401.4
55°	2130.6	1641.3	517.6	430.3	426.6	416.8	405.1	395.9	385.4	377.4	375.6
56°	2195.2	1714.5	510.2	422.9	416.8	411.3	395.9	390.4	373.8	371.9	370.7
57.5°	2247.4	1779.0	511.5	408.8	402.6	397.7	388.5	375.0	363.9	357.2	360.2
60°	2129.4	1665.3	488.1	387.3	386.0	376.8	363.9	357.8	344.2	336.3	334.4
62.5°	1582.9	1130.5	395.9	359.6	359.0	349.2	334.4	327.6	325.2	314.1	314.1
65°	911.6	708.8	342.4	336.9	332.0	322.1	307.4	301.8	295.7	292.0	288.9
67.5°	389.1	367.6	311.1	310.4	304.9	292.6	277.9	269.3	261.3	253.9	257.6
70°	282.2	286.5	280.9	277.9	271.1	255.7	242.8	232.4	220.1	215.2	218.8
72.5°	223.8	233.0	241.0	241.6	233.6	215.8	201.6	187.5	174.0	167.2	170.3
75°	169.7	175.8	183.8	185.6	174.0	161.7	148.1	133.4	122.9	115.0	116.2
77.5°	122.3	121.1	128.5	127.2	121.7	113.1	100.8	87.3	75.6	68.2	68.8
80°	83.6	85.4	89.8	89.1	82.4	76.8	67.6	56.6	47.9	41.8	40.6
82.5°	58.4	61.5	65.2	62.1	56.6	51.0	44.3	36.3	29.5	24.6	23.4
85°	20.9	24.0	27.7	29.5	31.4	30.1	25.2	20.3	14.8	12.3	11.7
87.5°	4.3	4.9	5.5	5.5	5.5	4.9	4.3	4.3	3.7	1.8	1.8
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)