

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: P451405

Luminaire Tested: **GALN-SA2B-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10398 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

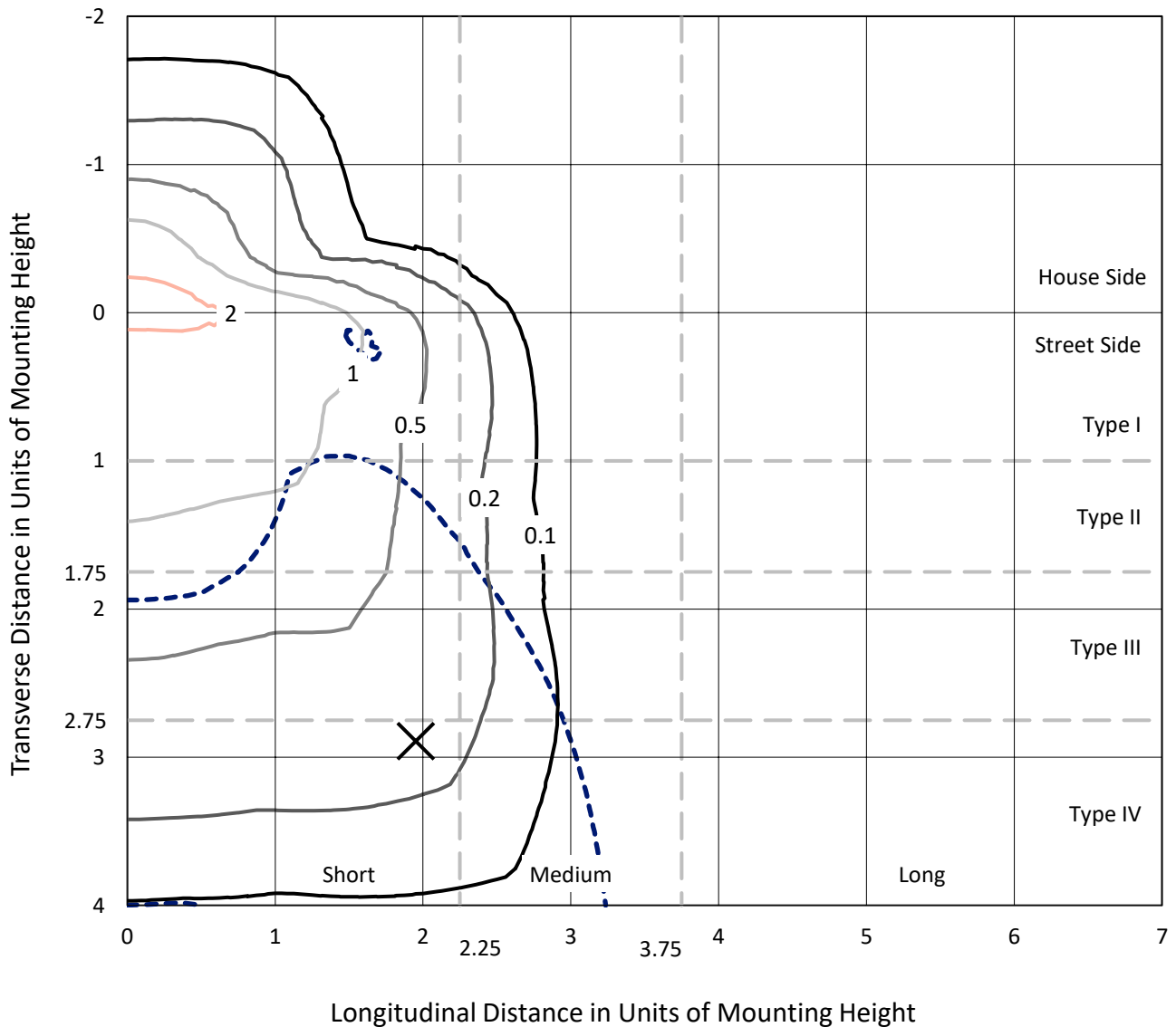
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

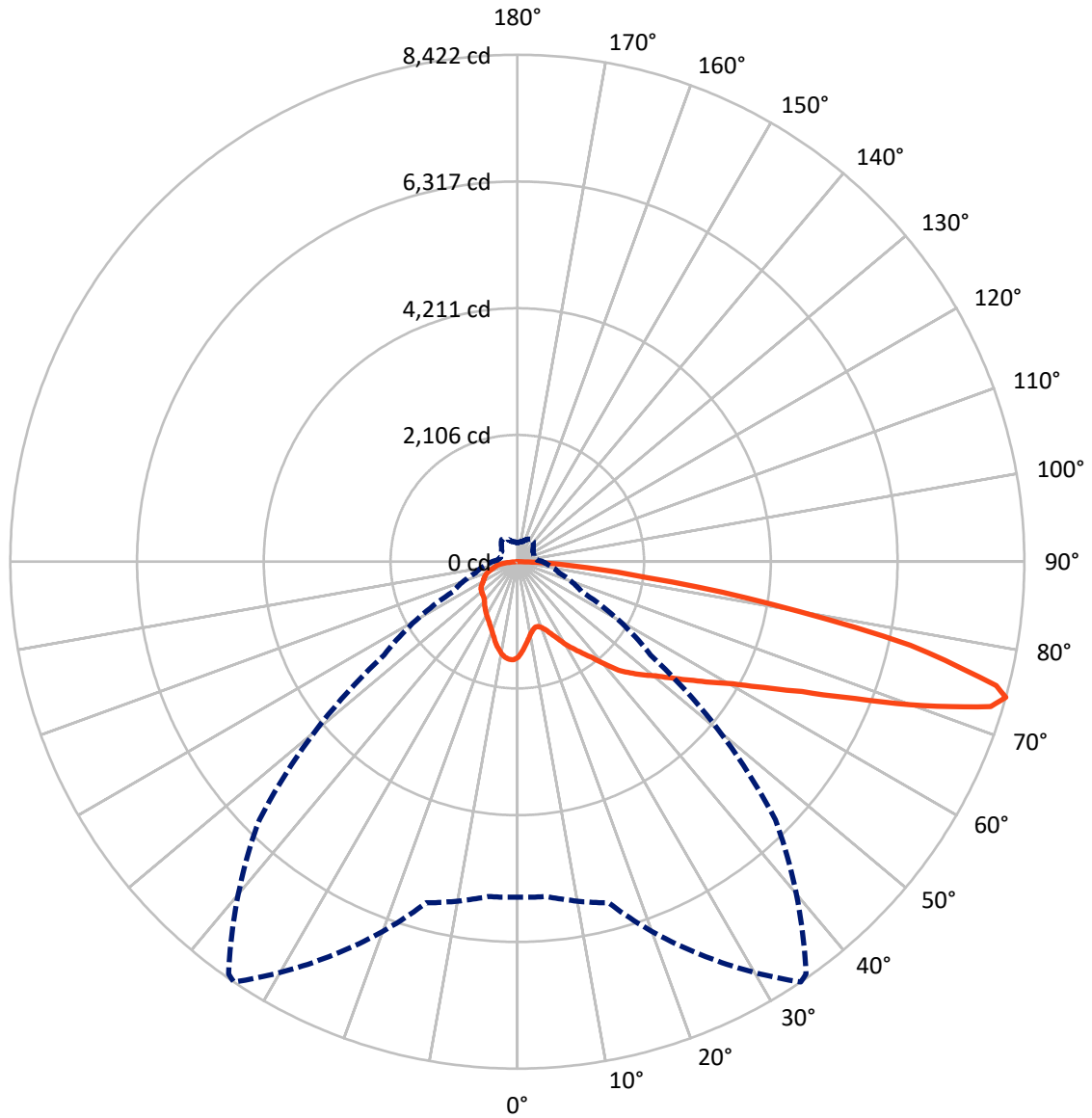
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2212.8	0.0	2212.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8185.2	0.0	8185.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	10398.0	0.0	10398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	1.4
10°-20°	395.2	3.8
20°-30°	651.7	6.3
30°-40°	976.1	9.4
40°-50°	1419.0	13.6
50°-60°	1982.0	19.1
60°-70°	2481.3	23.9
70°-80°	2051.9	19.7
80°-90°	296.5	2.9
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°	10398.0	100.0
0°-180°	10398.0	100.0

Coefficient of Utilization



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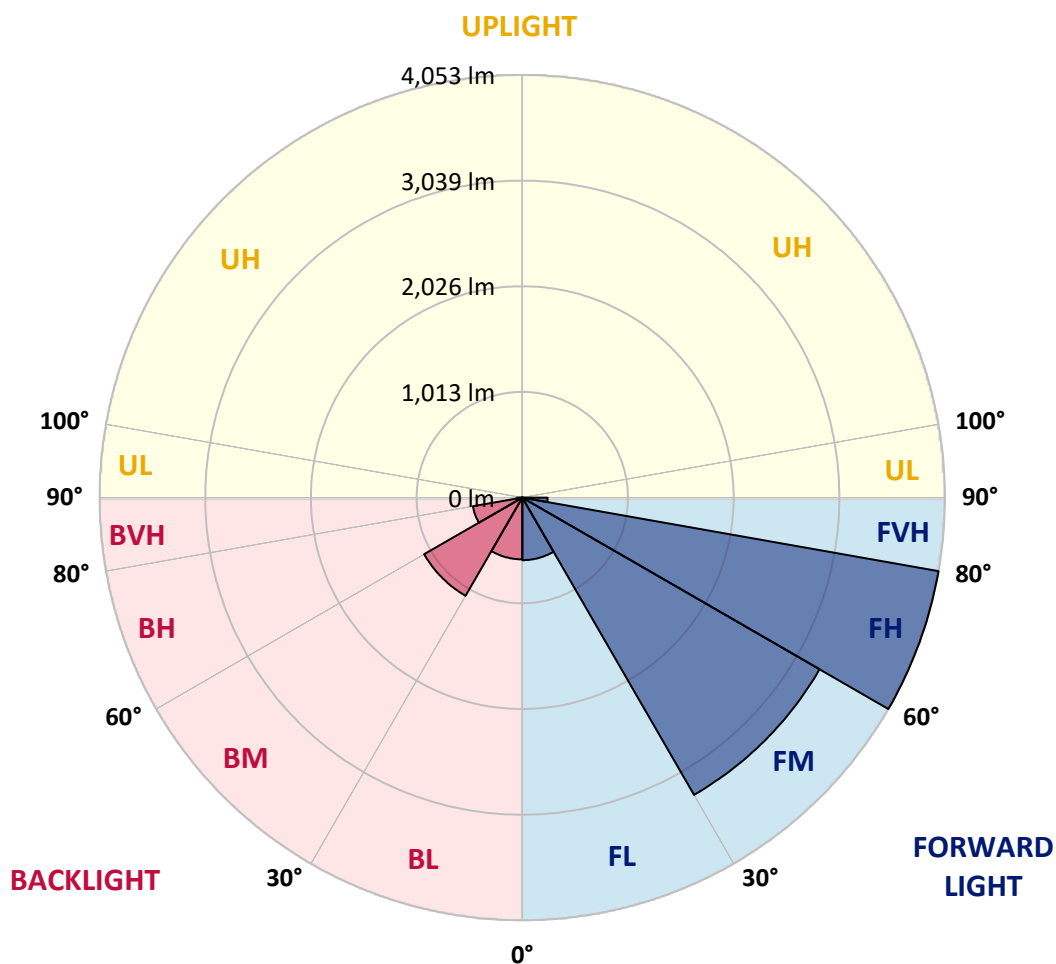
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	599.4	5.8			
FM	(30°-60°)	3290.4	31.6			
FH	(60°-80°)	4052.6	39.0			G2/5000
FVH	(80°-90°)	242.9	2.3			G3/500
BL	(0°-30°)	591.9	5.7	B2/1000		
BM	(30°-60°)	1086.7	10.5	B2/2500		
BH	(60°-80°)	480.6	4.6	B1/500		G1/500
BVH	(80°-90°)	53.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6
2.5°	1467.2	1474.7	1478.7	1493.1	1496.6	1501.2	1513.3	1529.4	1550.1	1568.6	1584.7
5°	1345.1	1356.6	1363.5	1376.2	1400.9	1403.2	1435.5	1472.4	1514.4	1553.6	1585.8
7.5°	1229.3	1241.9	1247.7	1270.7	1303.6	1308.8	1356.0	1414.2	1484.5	1543.8	1593.3
10°	1142.3	1148.6	1161.3	1178.6	1217.8	1221.2	1282.8	1360.6	1451.6	1539.2	1606.0
12.5°	1095.1	1098.5	1101.4	1119.8	1158.4	1163.6	1228.1	1316.3	1425.7	1542.6	1626.7
15°	1102.0	1103.1	1090.4	1093.9	1125.0	1132.5	1196.4	1286.9	1409.6	1551.3	1657.8
17.5°	1160.1	1156.1	1125.0	1108.9	1130.8	1134.2	1190.1	1275.4	1402.1	1567.4	1690.1
20°	1251.7	1246.0	1192.4	1156.7	1169.4	1172.2	1210.8	1284.0	1409.6	1593.9	1740.2
22.5°	1365.8	1363.5	1282.3	1239.1	1238.5	1238.5	1258.6	1315.1	1432.0	1630.2	1792.6
25°	1525.4	1513.3	1407.3	1351.4	1335.8	1334.7	1332.4	1366.4	1460.8	1668.8	1854.9
27.5°	1689.0	1668.2	1573.7	1487.9	1454.5	1450.5	1435.5	1439.0	1497.7	1712.6	1925.7
30°	1835.8	1822.6	1733.9	1638.8	1599.1	1589.9	1548.4	1529.4	1559.3	1791.5	2038.6
32.5°	1948.2	1940.1	1871.0	1784.6	1725.8	1724.1	1663.6	1648.1	1655.5	1887.1	2167.6
35°	2039.2	2042.1	2006.9	1932.0	1864.6	1854.9	1814.5	1794.9	1773.1	2025.4	2330.1
37.5°	2163.6	2169.9	2167.6	2103.1	2020.8	2023.1	2013.8	1981.6	1923.4	2179.7	2510.4
40°	2300.7	2305.3	2304.7	2280.0	2236.8	2239.1	2235.6	2198.7	2111.8	2376.2	2710.8
42.5°	2490.2	2468.3	2411.3	2436.1	2461.4	2472.4	2496.0	2460.8	2341.6	2585.8	2899.2
45°	2702.2	2660.7	2531.7	2543.2	2637.1	2657.9	2788.0	2739.7	2591.0	2826.6	3121.0
47.5°	2835.8	2795.0	2686.1	2683.8	2808.2	2828.4	3058.8	3040.9	2818.0	3086.4	3391.7
50°	2955.1	2949.3	2826.6	2856.0	2977.6	3007.5	3353.7	3337.0	3044.4	3392.9	3686.7
52.5°	3131.9	3085.3	2987.3	3047.8	3208.5	3247.7	3646.3	3597.4	3252.3	3663.6	3973.0
55°	3211.4	3200.5	3194.7	3247.1	3467.8	3496.0	3930.9	3818.6	3429.7	3892.9	4190.7
57.5°	3424.0	3403.8	3460.9	3496.6	3773.1	3816.3	4228.1	4049.6	3585.3	4074.9	4296.7
60°	3699.3	3688.4	3740.8	3805.3	4114.1	4179.8	4566.9	4246.6	3710.3	4166.5	4238.5
62.5°	4110.6	4109.5	4099.7	4237.9	4597.4	4657.9	4955.7	4438.4	3729.9	4098.0	3937.8
65°	4700.5	4679.8	4594.5	4745.4	5198.8	5269.6	5360.6	4545.5	3611.8	3746.0	3315.7
67.5°	5317.4	5316.3	5247.2	5443.0	6062.3	6135.4	5867.0	4521.9	3284.0	3034.6	2354.9
70°	5829.0	5804.2	5892.3	6414.2	7165.4	7250.1	6310.0	4243.7	2615.8	2004.0	1399.2
72.5°	5951.7	5952.8	6136.0	7163.1	8224.7	8238.0	6469.5	3439.5	1750.6	1105.4	699.9
74°	5573.8	5583.6	5867.6	7200.5	8422.3	8362.4	6061.7	2703.4	1183.8	721.8	504.6
75°	5087.6	5026.0	5436.7	6951.1	8217.2	8152.7	5584.1	2169.4	903.2	576.6	441.8
77.5°	2720.1	2782.9	3416.5	5187.2	6675.7	6601.4	3786.3	1040.3	487.9	401.5	318.0
80°	968.3	1068.0	1501.2	2714.3	4280.0	4303.0	1807.0	477.0	343.3	296.1	224.7
82.5°	395.2	406.1	644.6	1204.5	2173.4	2194.1	737.9	283.4	245.4	203.9	134.2
85°	154.4	159.0	285.1	541.5	927.4	987.9	255.2	149.8	150.9	116.9	68.5
87.5°	51.8	58.8	116.9	180.3	315.1	308.8	74.3	44.4	54.1	50.7	21.3
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°	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6
2.5°	1592.8	1603.7	1611.2	1619.3	1626.7	1629.0	1627.3	1632.5	1633.1	1633.7	1634.2
5°	1602.0	1616.9	1631.3	1639.4	1642.9	1640.0	1630.2	1625.0	1620.4	1616.9	1618.1
7.5°	1614.6	1636.0	1649.2	1652.7	1643.4	1630.2	1606.0	1587.0	1574.9	1566.8	1566.3
10°	1634.2	1655.0	1665.9	1656.1	1630.8	1598.5	1560.5	1524.8	1497.7	1489.6	1489.1
12.5°	1659.0	1682.6	1682.0	1653.2	1608.9	1551.3	1489.6	1448.2	1411.3	1392.9	1400.4
15°	1691.3	1709.1	1692.4	1640.6	1570.3	1491.4	1415.3	1358.9	1317.4	1297.8	1299.0
17.5°	1728.7	1744.3	1699.9	1618.1	1516.1	1414.8	1326.6	1273.1	1240.2	1225.8	1224.7
20°	1775.4	1780.0	1699.9	1578.9	1446.4	1325.5	1241.4	1203.9	1185.5	1178.0	1180.3
22.5°	1825.5	1816.3	1690.7	1523.6	1354.8	1232.2	1175.7	1159.0	1149.8	1148.6	1149.8
25°	1881.9	1856.0	1671.7	1448.7	1259.2	1151.5	1118.7	1121.6	1123.3	1123.3	1127.3
27.5°	1951.1	1899.2	1640.0	1354.3	1147.5	1076.6	1067.4	1087.6	1096.8	1098.5	1101.4
30°	2042.1	1946.4	1587.6	1236.2	1052.4	1009.2	1025.4	1052.4	1062.8	1069.1	1068.0
32.5°	2150.4	1998.3	1516.7	1118.1	975.8	962.0	981.6	1009.2	1020.7	1024.2	1019.6
35°	2277.7	2057.0	1423.4	1007.5	909.0	917.1	940.1	948.7	959.1	959.1	961.4
37.5°	2414.8	2104.3	1309.3	906.1	857.1	886.5	903.2	895.2	890.6	884.8	887.7
40°	2554.2	2139.4	1161.3	805.9	805.3	854.8	859.5	836.4	818.0	812.2	809.3
42.5°	2675.7	2161.3	1027.7	728.1	756.3	823.7	827.2	790.3	761.0	743.7	737.9
45°	2819.1	2186.7	896.9	663.6	710.8	799.0	807.6	758.1	714.9	678.6	669.4
47.5°	3015.6	2244.3	793.8	613.5	678.0	783.4	795.5	731.6	674.5	627.3	619.8
50°	3237.4	2323.2	713.7	579.5	652.7	769.6	784.6	704.5	637.1	584.7	578.9
52.5°	3440.7	2365.8	644.6	549.0	627.9	744.2	770.2	684.9	600.2	542.1	536.9
55°	3551.9	2296.7	576.6	519.0	593.9	711.4	750.0	657.8	564.5	519.6	512.1
57.5°	3566.8	2153.8	515.0	486.8	558.2	671.1	712.6	625.0	541.5	504.0	497.7
60°	3451.1	1940.7	467.2	460.3	521.9	625.6	670.5	596.2	517.9	486.8	480.4
62.5°	3163.0	1709.1	433.8	436.1	485.0	577.8	639.4	568.6	495.4	467.7	462.0
65°	2667.6	1410.7	401.5	411.3	452.2	540.3	611.2	545.5	472.9	453.3	448.2
67.5°	1853.1	1018.4	375.0	385.4	421.1	502.3	578.3	520.7	447.6	437.2	429.2
70°	1025.9	626.7	343.9	356.0	388.8	459.7	541.5	483.3	410.7	406.1	394.6
72.5°	539.2	399.2	308.8	322.0	345.0	405.0	485.0	442.4	374.4	354.8	339.9
74°	421.1	327.2	285.1	299.0	314.5	372.7	451.6	413.0	348.5	325.5	313.9
75°	366.9	291.5	265.0	282.8	296.7	350.8	425.7	392.3	334.1	312.2	301.8
77.5°	259.2	218.3	216.6	237.9	245.4	307.6	383.6	357.1	297.8	274.8	265.0
80°	182.0	163.6	171.7	184.9	195.3	271.9	356.0	308.8	244.2	217.2	213.7
82.5°	118.7	107.1	122.7	134.8	138.2	200.5	287.4	234.4	178.0	144.6	134.2
85°	54.7	53.6	70.3	68.5	68.0	97.9	170.5	137.1	102.5	76.6	72.0
87.5°	13.8	13.2	17.3	14.4	17.3	15.0	15.6	4.0	0.6	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)