

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: STREETWORKS

Report Number: P654235

Luminaire Tested: **GLAN-SA2B-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654235
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: STREETWORKS
Catalog Number: GLAN-SA2B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 9602.5 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

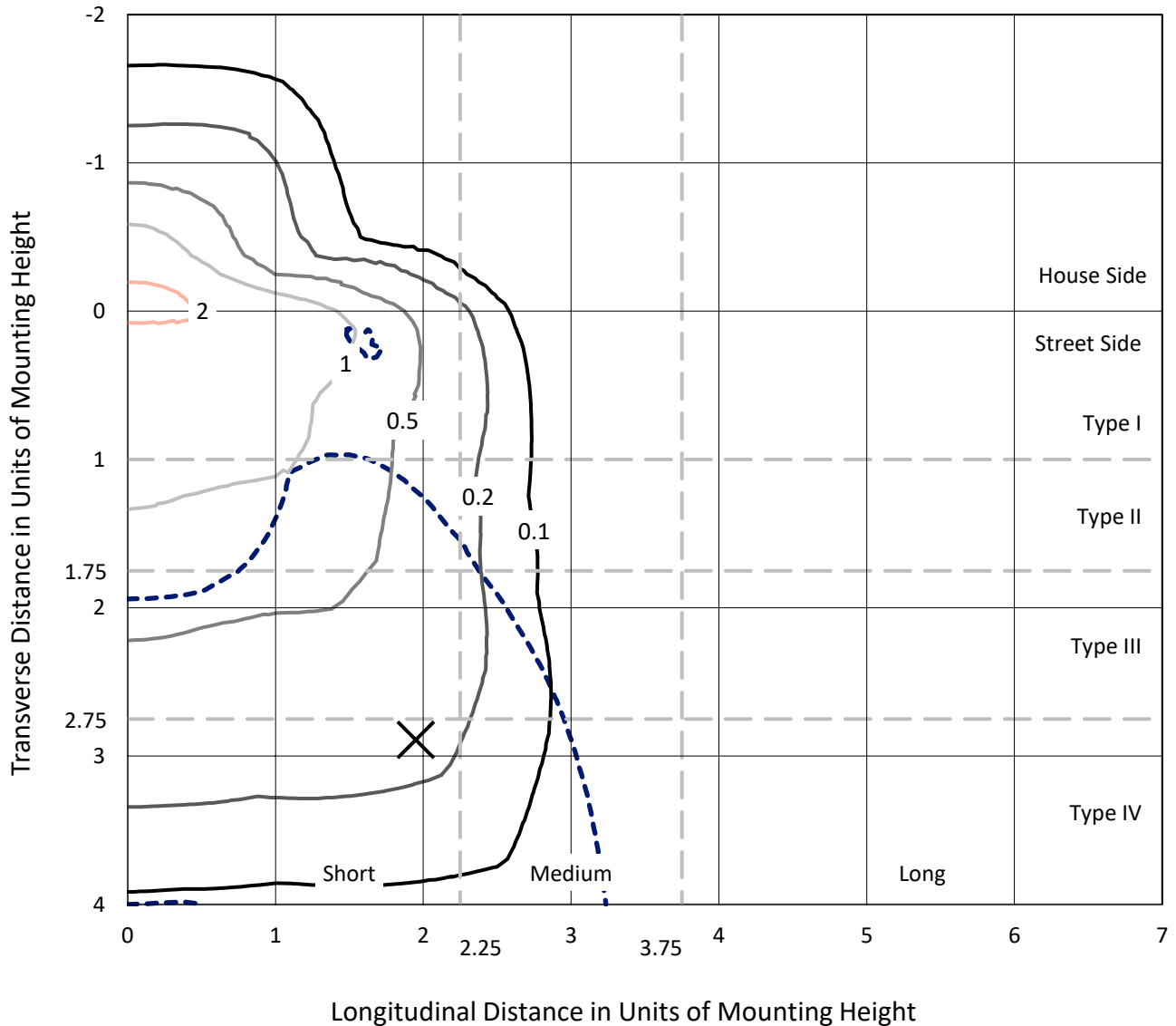
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

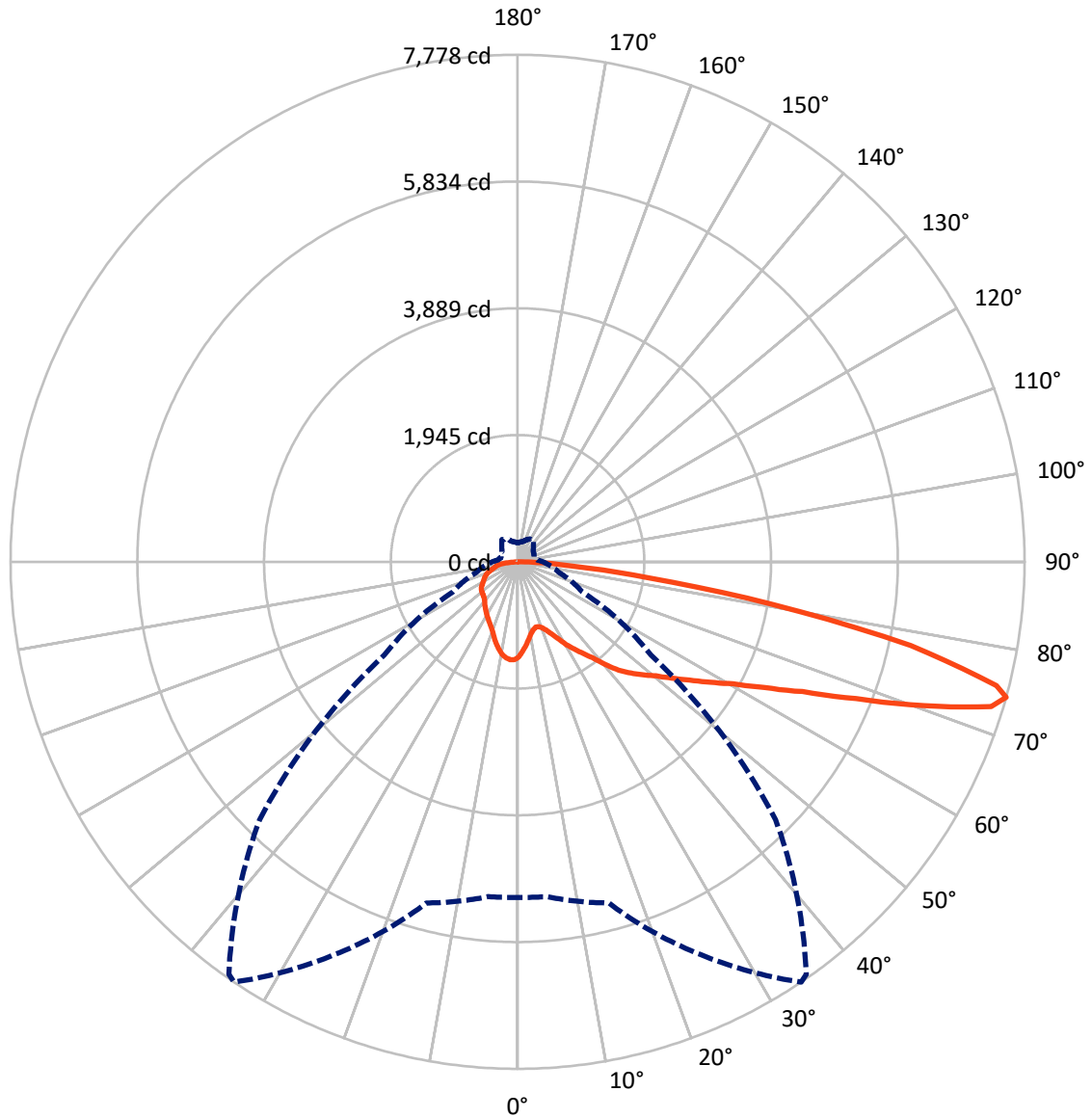
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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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	2043.5	0.0	2043.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7559.0	0.0	7559.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	9602.5	0.0	9602.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.4
10°-20°	365.0	3.8
20°-30°	601.8	6.3
30°-40°	901.4	9.4
40°-50°	1310.4	13.6
50°-60°	1830.4	19.1
60°-70°	2291.5	23.9
70°-80°	1894.9	19.7
80°-90°	273.8	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°	9602.5	100.0
0°-180°	9602.5	100.0

Coefficient of Utilization



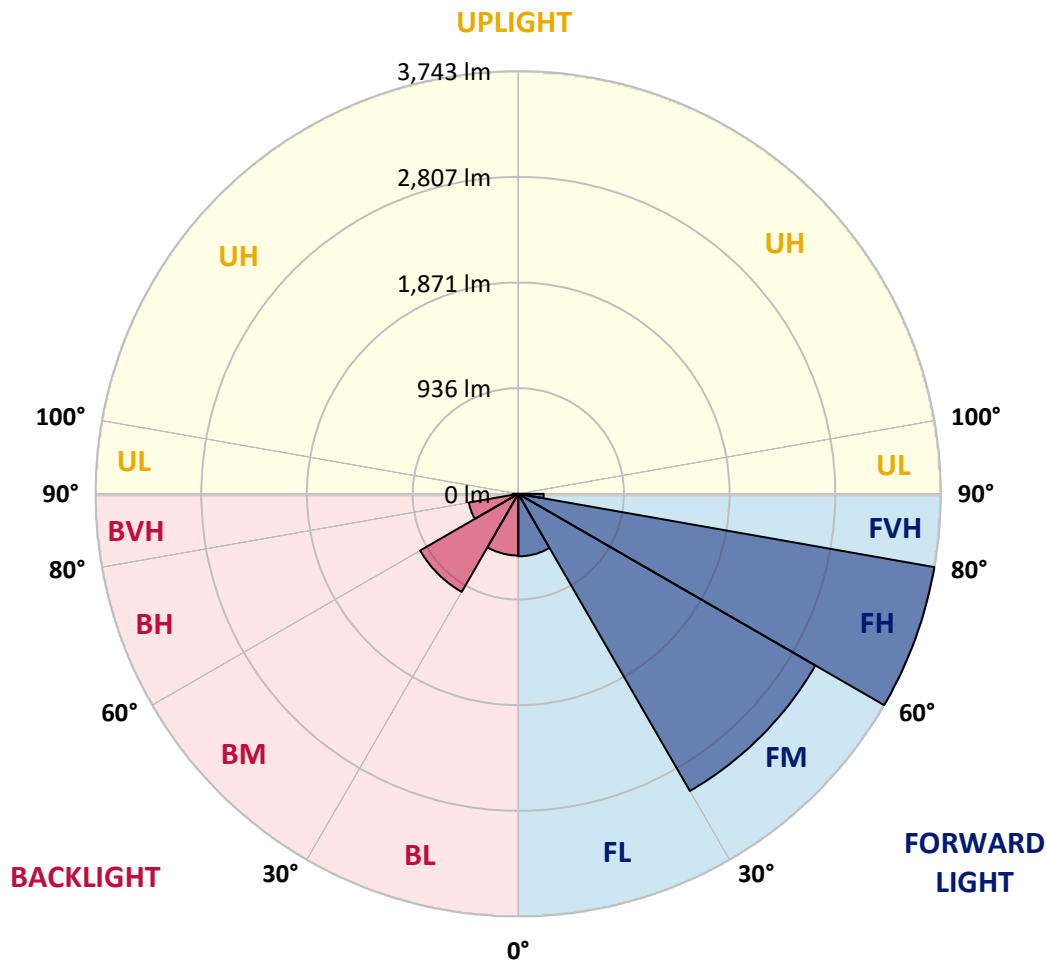
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.5	5.8			
FM (30°-60°)	3038.6	31.6			
FH (60°-80°)	3742.6	39.0			G2/5000
FVH (80°-90°)	224.3	2.3			G2/225
BL (0°-30°)	546.6	5.7	B2/1000		
BM (30°-60°)	1003.6	10.5	B2/2500		
BH (60°-80°)	443.8	4.6	B1/500		G1/500
BVH (80°-90°)	49.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1
2.5°	1354.9	1361.8	1365.6	1378.9	1382.1	1386.3	1397.5	1412.4	1431.6	1448.5	1463.4
5°	1242.2	1252.8	1259.1	1270.9	1293.8	1295.9	1325.7	1359.7	1398.6	1434.7	1464.5
7.5°	1135.3	1147.0	1152.3	1173.5	1203.9	1208.6	1252.2	1306.0	1370.9	1425.7	1471.4
10°	1054.9	1060.8	1072.4	1088.4	1124.6	1127.8	1184.7	1256.5	1340.6	1421.5	1483.1
12.5°	1011.3	1014.5	1017.1	1034.2	1069.8	1074.5	1134.2	1215.6	1316.7	1424.7	1502.3
15°	1017.7	1018.7	1007.0	1010.2	1039.0	1045.9	1104.9	1188.4	1301.7	1432.6	1531.0
17.5°	1071.4	1067.6	1039.0	1024.1	1044.3	1047.5	1099.0	1177.8	1294.8	1447.5	1560.8
20°	1156.0	1150.7	1101.2	1068.2	1079.9	1082.5	1118.2	1185.7	1301.7	1472.0	1607.1
22.5°	1261.3	1259.1	1184.2	1144.3	1143.8	1143.8	1162.3	1214.5	1322.5	1505.5	1655.5
25°	1408.7	1397.5	1299.6	1248.0	1233.7	1232.6	1230.5	1261.8	1349.0	1541.1	1712.9
27.5°	1559.7	1540.6	1453.3	1374.1	1343.2	1339.5	1325.7	1328.9	1383.1	1581.6	1778.4
30°	1695.4	1683.2	1601.3	1513.5	1476.8	1468.2	1430.0	1412.4	1440.0	1654.4	1882.7
32.5°	1799.2	1791.7	1727.8	1648.0	1593.8	1592.2	1536.3	1522.0	1528.9	1742.7	2001.8
35°	1883.2	1885.9	1853.4	1784.3	1722.0	1712.9	1675.7	1657.6	1637.4	1870.4	2151.9
37.5°	1998.1	2003.9	2001.8	1942.2	1866.2	1868.3	1859.8	1830.0	1776.3	2013.0	2318.3
40°	2124.7	2129.0	2128.4	2105.5	2065.7	2067.8	2064.6	2030.5	1950.2	2194.4	2503.5
42.5°	2299.7	2279.5	2226.8	2249.7	2273.1	2283.2	2305.0	2272.6	2162.5	2388.0	2677.4
45°	2495.5	2457.1	2338.0	2348.7	2435.4	2454.5	2574.7	2530.1	2392.8	2610.4	2882.2
47.5°	2618.9	2581.1	2480.6	2478.4	2593.4	2612.0	2824.8	2808.3	2602.4	2850.3	3132.2
50°	2729.0	2723.7	2610.4	2637.5	2749.7	2777.4	3097.2	3081.8	2811.5	3133.3	3404.6
52.5°	2892.4	2849.2	2758.8	2814.7	2963.1	2999.3	3367.4	3322.2	3003.5	3383.3	3669.0
55°	2965.8	2955.6	2950.3	2998.8	3202.4	3228.5	3630.2	3526.5	3167.4	3595.1	3870.1
57.5°	3162.1	3143.4	3196.1	3229.1	3484.4	3524.3	3904.7	3739.8	3311.0	3763.1	3968.0
60°	3416.3	3406.2	3454.7	3514.2	3799.4	3860.0	4217.4	3921.7	3426.4	3847.7	3914.3
62.5°	3796.2	3795.1	3786.0	3913.8	4245.7	4301.5	4576.6	4098.9	3444.5	3784.4	3636.6
65°	4340.9	4321.7	4243.0	4382.4	4801.0	4866.5	4950.5	4197.8	3335.5	3459.5	3062.0
67.5°	4910.7	4909.6	4845.8	5026.6	5598.5	5666.1	5418.1	4176.0	3032.8	2802.5	2174.7
70°	5383.1	5360.2	5441.5	5923.5	6617.2	6695.5	5827.2	3919.1	2415.7	1850.7	1292.2
72.5°	5496.4	5497.4	5666.6	6615.1	7595.5	7607.8	5974.5	3176.4	1616.7	1020.9	646.3
74°	5147.3	5156.4	5418.6	6649.7	7778.0	7722.7	5597.9	2496.5	1093.2	666.6	466.0
75°	4698.4	4641.5	5020.8	6419.4	7588.6	7529.1	5156.9	2003.4	834.1	532.5	408.1
77.5°	2512.0	2569.9	3155.1	4790.4	6165.0	6096.4	3496.6	960.8	450.6	370.8	293.7
80°	894.2	986.2	1386.3	2506.7	3952.5	3973.8	1668.8	440.4	317.1	273.4	207.5
82.5°	364.9	375.0	595.3	1112.4	2007.1	2026.3	681.5	261.7	226.6	188.3	124.0
85°	142.5	146.8	263.3	500.1	856.5	912.3	235.6	138.3	139.4	108.0	63.3
87.5°	47.9	54.2	108.0	166.5	291.0	285.1	68.6	41.0	50.0	46.8	19.7
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°	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1
2.5°	1470.9	1481.0	1487.9	1495.4	1502.3	1504.4	1502.8	1507.6	1508.2	1508.7	1509.2
5°	1479.4	1493.3	1506.6	1514.0	1517.2	1514.6	1505.5	1500.7	1496.5	1493.3	1494.3
7.5°	1491.1	1510.8	1523.1	1526.2	1517.8	1505.5	1483.1	1465.6	1454.4	1446.9	1446.4
10°	1509.2	1528.3	1538.4	1529.4	1506.0	1476.2	1441.1	1408.2	1383.1	1375.7	1375.1
12.5°	1532.0	1553.9	1553.3	1526.8	1485.8	1432.6	1375.7	1337.4	1303.3	1286.3	1293.2
15°	1561.9	1578.4	1562.9	1515.1	1450.1	1377.3	1307.1	1254.9	1216.6	1198.5	1199.6
17.5°	1596.5	1610.9	1569.8	1494.3	1400.2	1306.5	1225.2	1175.6	1145.4	1132.1	1131.0
20°	1639.5	1643.8	1569.8	1458.1	1335.8	1224.1	1146.4	1111.8	1094.8	1087.9	1090.0
22.5°	1685.8	1677.3	1561.3	1407.1	1251.2	1137.9	1085.7	1070.3	1061.8	1060.8	1061.8
25°	1737.9	1714.0	1543.8	1337.9	1162.9	1063.4	1033.1	1035.8	1037.4	1037.4	1041.1
27.5°	1801.8	1753.9	1514.6	1250.7	1059.7	994.2	985.7	1004.4	1012.9	1014.5	1017.1
30°	1885.9	1797.6	1466.1	1141.6	971.9	932.0	946.9	971.9	981.5	987.3	986.2
32.5°	1985.9	1845.4	1400.7	1032.6	901.1	888.4	906.5	932.0	942.7	945.9	941.6
35°	2103.4	1899.7	1314.5	930.4	839.5	846.9	868.2	876.2	885.7	885.7	887.8
37.5°	2230.0	1943.3	1209.2	836.8	791.5	818.7	834.1	826.7	822.4	817.1	819.8
40°	2358.8	1975.8	1072.4	744.2	743.7	789.4	793.7	772.5	755.4	750.1	747.4
42.5°	2471.0	1995.9	949.1	672.4	698.5	760.7	763.9	729.9	702.7	686.8	681.5
45°	2603.5	2019.4	828.3	612.8	656.5	737.8	745.8	700.0	660.2	626.6	618.1
47.5°	2784.9	2072.6	733.1	566.6	626.1	723.5	734.6	675.6	622.9	579.3	572.4
50°	2989.7	2145.5	659.1	535.1	602.7	710.7	724.5	650.6	588.4	539.9	534.6
52.5°	3177.5	2184.8	595.3	507.0	579.9	687.3	711.2	632.5	554.3	500.6	495.8
55°	3280.2	2121.0	532.5	479.3	548.5	657.0	692.6	607.5	521.3	479.9	472.9
57.5°	3293.9	1989.0	475.6	449.5	515.4	619.7	658.1	577.2	500.1	465.5	459.6
60°	3187.1	1792.3	431.4	425.0	482.0	577.7	619.2	550.6	478.3	449.5	443.6
62.5°	2921.0	1578.4	400.6	402.7	447.9	533.5	590.5	525.0	457.5	431.9	426.6
65°	2463.5	1302.8	370.8	379.8	417.6	499.0	564.4	503.8	436.7	418.6	413.9
67.5°	1711.4	940.5	346.3	355.9	388.9	463.9	534.1	480.9	413.4	403.8	396.3
70°	947.5	578.8	317.6	328.7	359.1	424.5	500.1	446.3	379.3	375.0	364.4
72.5°	498.0	368.7	285.1	297.4	318.7	374.0	447.9	408.6	345.8	327.7	313.9
74°	388.9	302.2	263.3	276.1	290.5	344.2	417.1	381.4	321.9	300.6	289.9
75°	338.8	269.2	244.7	261.2	274.0	324.0	393.2	362.3	308.6	288.3	278.8
77.5°	239.3	201.6	200.0	219.7	226.6	284.1	354.3	329.8	275.0	253.7	244.7
80°	168.1	151.0	158.5	170.7	180.3	251.1	328.7	285.1	225.6	200.6	197.4
82.5°	109.6	99.0	113.3	124.5	127.7	185.1	265.4	216.5	164.4	133.6	124.0
85°	50.5	49.5	64.9	63.3	62.7	90.4	157.4	126.6	94.7	70.7	66.5
87.5°	12.8	12.2	16.0	13.3	16.0	13.8	14.4	3.7	0.5	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)