

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: P318067

Luminaire Tested: **GAN-SA3A-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13961 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

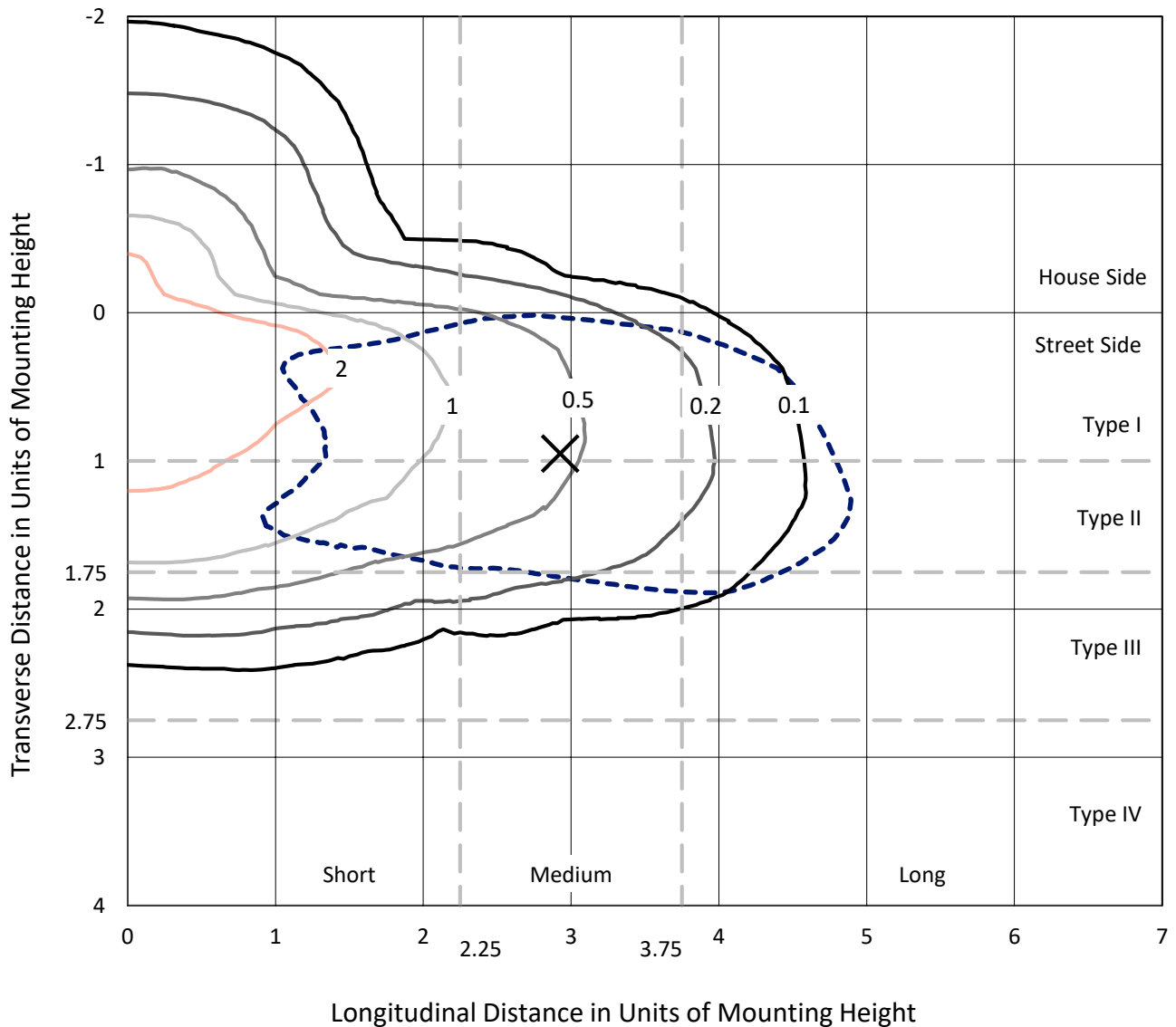
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

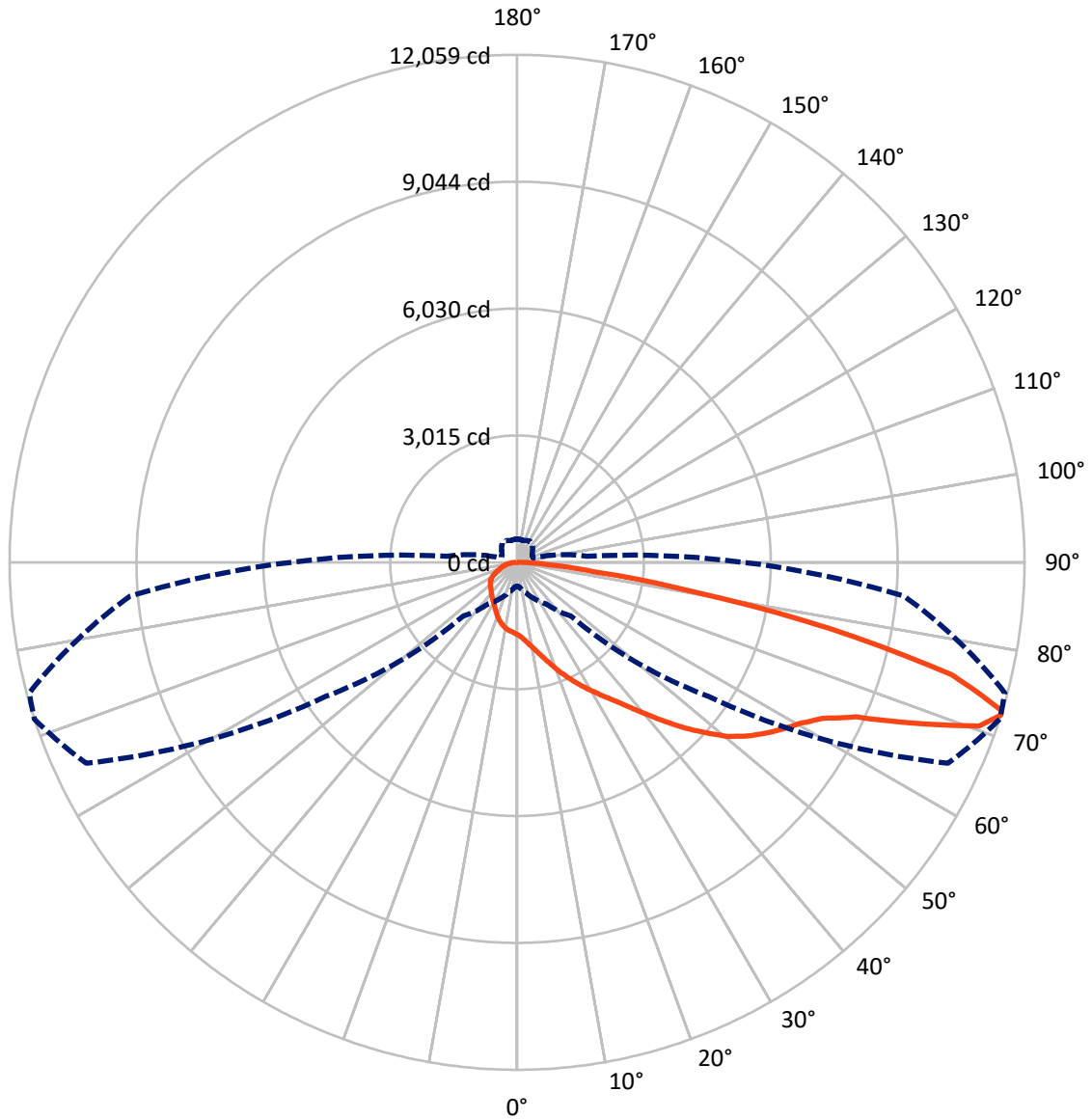
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.9	0.0	2589.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11371.1	0.0	11371.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	13961.0	0.0	13961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	1.2
10°-20°	556.2	4.0
20°-30°	974.6	7.0
30°-40°	1445.0	10.4
40°-50°	2113.4	15.1
50°-60°	2908.0	20.8
60°-70°	3237.5	23.2
70°-80°	2193.7	15.7
80°-90°	360.6	2.6
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°	13961.0	100.0
0°-180°	13961.0	100.0

Coefficient of Utilization

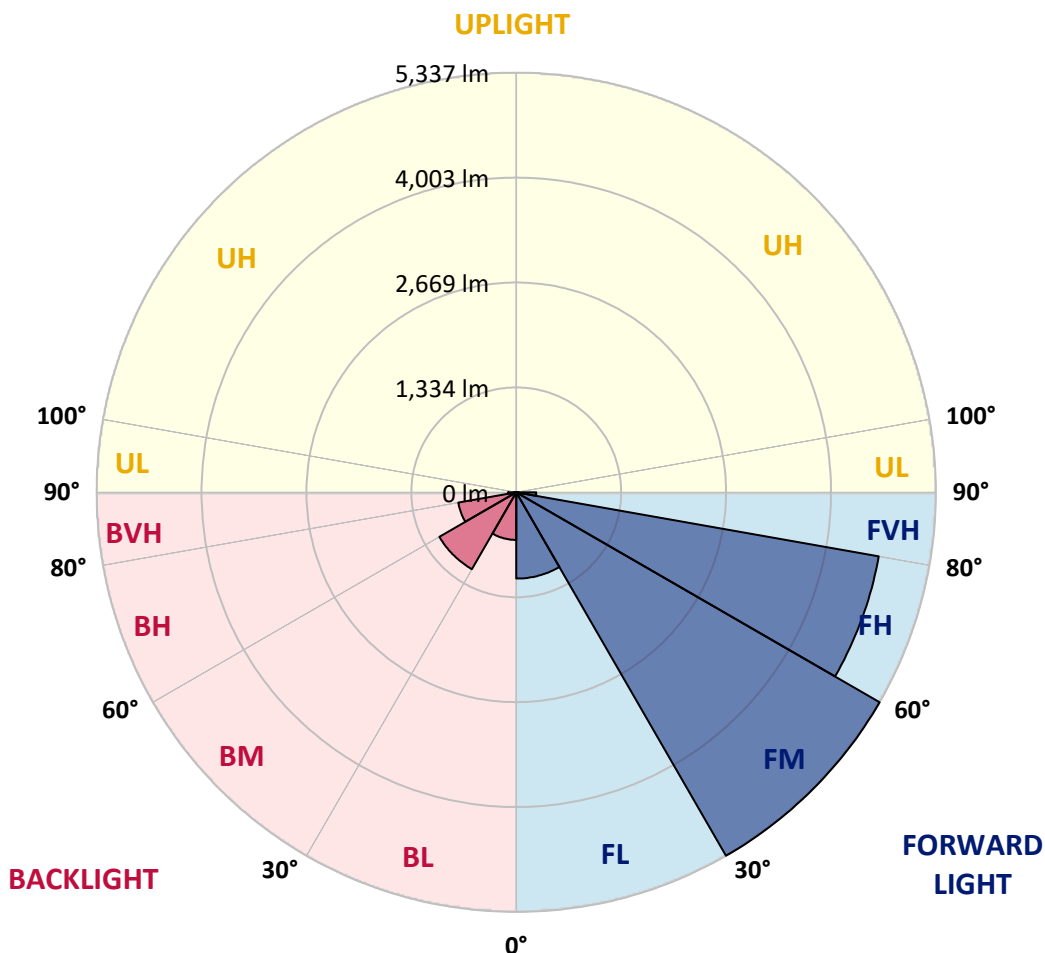


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.4	7.9			
FM (30°-60°)	5337.5	38.2			
FH (60°-80°)	4681.9	33.5			G2/5000
FVH (80°-90°)	254.3	1.8			G3/500
BL (0°-30°)	605.4	4.3	B2/1000		
BM (30°-60°)	1128.9	8.1	B2/2500		
BH (60°-80°)	749.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	106.2	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6
2.5°	1897.4	1894.5	1884.4	1884.4	1865.1	1848.8	1818.0	1797.4	1772.8	1764.2	1735.4
5°	2081.0	2081.9	2069.4	2060.8	2032.4	1997.8	1945.4	1897.8	1850.2	1831.0	1771.9
7.5°	2235.3	2233.4	2230.0	2222.8	2196.4	2160.8	2090.1	2019.5	1949.3	1920.4	1818.5
10°	2334.3	2338.6	2341.5	2344.9	2333.8	2308.4	2241.5	2155.5	2063.7	2024.3	1874.3
12.5°	2384.3	2392.0	2405.5	2428.5	2446.8	2443.9	2395.4	2304.0	2194.9	2145.4	1944.0
15°	2413.6	2423.7	2444.9	2486.2	2537.7	2567.0	2554.0	2471.3	2349.7	2288.6	2029.1
17.5°	2431.9	2440.1	2472.8	2528.0	2604.5	2682.3	2716.5	2647.3	2524.7	2455.0	2126.6
20°	2444.4	2450.6	2491.5	2556.4	2655.4	2779.4	2874.6	2857.3	2717.4	2627.1	2228.6
22.5°	2472.3	2477.6	2516.5	2581.9	2691.5	2851.6	3027.0	3053.0	2920.8	2818.4	2337.7
25°	2550.2	2550.2	2582.8	2628.5	2731.4	2914.0	3155.8	3270.7	3128.4	3009.2	2438.6
27.5°	2698.7	2697.2	2709.3	2725.1	2803.0	2977.5	3270.7	3463.0	3343.8	3213.5	2536.7
30°	2874.6	2884.2	2885.7	2878.0	2914.5	3056.8	3377.0	3665.9	3560.6	3420.2	2637.2
32.5°	3101.0	3107.3	3100.1	3074.6	3069.3	3169.3	3481.3	3878.3	3795.2	3636.1	2729.0
35°	3388.5	3376.5	3353.9	3302.0	3252.5	3319.8	3600.5	4090.8	4058.6	3897.1	2855.4
37.5°	3696.6	3697.1	3669.2	3551.5	3483.2	3512.0	3764.9	4331.7	4377.3	4207.6	3017.4
40°	3943.7	3956.7	3974.0	3819.2	3730.8	3770.7	3974.0	4610.9	4754.2	4575.9	3228.4
42.5°	4116.3	4131.2	4180.2	4083.1	3991.3	4065.3	4220.1	4909.0	5177.2	5000.8	3475.5
45°	4299.0	4307.1	4341.7	4299.9	4241.3	4408.1	4497.5	5217.6	5624.8	5453.6	3751.9
47.5°	4491.2	4499.9	4535.5	4507.6	4476.8	4728.2	4786.9	5508.4	6053.5	5951.2	4047.1
50°	4728.7	4734.5	4768.1	4717.7	4727.3	4969.6	5045.5	5775.2	6503.0	6398.2	4343.2
52.5°	5052.7	5054.2	5100.8	5055.1	5009.9	5146.5	5268.1	6026.6	6855.4	6805.9	4639.3
55°	5306.5	5321.9	5474.8	5465.2	5439.2	5307.0	5454.1	6266.0	7169.7	7193.3	4953.7
57.5°	5144.5	5204.6	5514.2	5732.4	5944.9	5706.5	5705.5	6535.7	7462.0	7573.5	5299.3
60°	4505.7	4587.4	5043.6	5527.7	6192.5	6401.6	6227.6	6865.0	7757.2	7950.4	5732.4
62.5°	3217.9	3352.5	3970.6	4743.6	5853.1	6862.1	7289.9	7387.5	8158.6	8386.9	6295.3
65°	1626.7	1728.6	2246.8	3178.0	4676.3	6561.2	8444.6	8531.6	8856.1	9058.9	7162.1
67.5°	988.3	1026.8	1279.6	1767.6	2866.9	5110.9	8821.5	10438.6	10205.9	10313.6	8398.0
70°	728.3	756.6	914.3	1173.9	1648.8	2999.1	7664.9	11799.4	11646.6	11634.6	9311.3
72°	567.2	587.9	727.3	948.4	1205.6	1799.3	5555.5	11297.1	12059.0	11998.5	9227.7
72.5°	537.9	556.2	683.1	892.7	1139.3	1631.0	4995.0	10958.2	12029.2	12001.8	9119.5
75°	423.5	436.5	505.7	690.3	891.7	925.4	2737.1	8492.2	10671.2	11114.9	8202.3
77.5°	350.4	352.4	388.9	502.3	695.1	654.2	1344.5	5892.0	7641.3	8129.2	5810.3
80°	285.5	287.9	305.2	352.4	525.9	484.1	638.4	3388.0	4278.3	4283.6	2763.1
82.5°	227.4	227.9	247.1	257.7	377.8	346.1	365.8	1590.7	1869.5	1798.3	993.1
85°	160.1	156.7	241.3	211.5	247.1	222.1	201.9	629.7	773.0	739.3	311.0
87.5°	53.4	55.3	107.2	137.0	144.2	125.9	89.9	241.3	291.8	289.4	98.5
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°	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6
2.5°	1726.2	1710.8	1688.2	1663.2	1643.5	1623.3	1608.4	1600.8	1592.1	1584.9	1593.5
5°	1744.5	1715.6	1667.6	1620.5	1585.9	1555.1	1533.0	1521.4	1510.9	1503.7	1504.6
7.5°	1774.3	1727.7	1646.9	1578.2	1530.1	1496.9	1474.3	1466.6	1459.9	1458.0	1460.4
10°	1806.0	1737.3	1619.5	1528.2	1473.4	1446.0	1435.9	1441.2	1446.0	1450.3	1455.1
12.5°	1842.1	1745.9	1579.6	1469.5	1422.9	1412.3	1422.4	1445.5	1462.3	1472.4	1478.7
15°	1889.2	1753.6	1533.5	1410.9	1379.6	1391.6	1425.8	1465.7	1495.0	1513.7	1516.6
17.5°	1932.4	1753.1	1474.3	1351.7	1344.5	1379.6	1431.1	1487.3	1526.7	1553.2	1558.5
20°	1977.1	1740.2	1405.6	1294.1	1309.0	1366.7	1433.5	1501.2	1548.8	1579.6	1586.8
22.5°	2019.0	1717.6	1330.1	1241.7	1279.2	1349.3	1424.3	1493.1	1540.7	1565.7	1573.4
25°	2047.3	1678.1	1253.7	1197.4	1252.7	1328.2	1394.5	1449.8	1485.4	1497.9	1499.8
27.5°	2061.8	1626.7	1181.6	1159.0	1225.3	1293.6	1339.3	1366.7	1376.7	1375.8	1373.9
30°	2063.7	1558.9	1119.6	1127.7	1193.6	1242.6	1264.3	1259.0	1246.0	1223.9	1225.8
32.5°	2057.4	1482.5	1067.7	1097.9	1153.2	1180.6	1181.6	1156.1	1121.5	1086.4	1076.8
35°	2059.4	1407.5	1022.0	1064.3	1104.2	1116.2	1105.1	1067.7	1020.5	975.4	965.7
37.5°	2080.5	1342.1	982.6	1025.3	1049.9	1052.7	1036.9	997.5	962.9	918.6	914.8
40°	2131.0	1295.5	945.1	981.6	995.5	997.0	974.4	946.5	949.4	925.8	925.4
42.5°	2221.8	1275.3	911.9	935.9	944.6	947.5	930.2	912.4	937.4	922.0	916.7
45°	2339.1	1280.1	884.0	891.2	907.1	920.6	910.0	888.3	898.0	831.1	809.0
47.5°	2474.7	1310.9	861.9	852.8	880.2	905.7	889.3	856.6	822.5	756.2	743.7
50°	2633.3	1358.5	841.7	814.8	850.9	885.5	869.1	822.5	771.1	738.8	734.5
52.5°	2798.7	1416.6	821.5	773.0	813.8	870.1	861.9	814.8	751.3	719.6	713.9
55°	2986.2	1475.3	796.1	724.4	773.9	862.9	858.5	786.9	736.4	718.7	714.3
57.5°	3219.3	1542.1	762.4	674.0	736.4	836.9	823.5	770.1	721.1	707.6	706.2
60°	3523.1	1640.7	713.9	620.1	690.8	797.0	794.1	745.6	696.5	686.9	685.0
62.5°	3978.8	1803.6	647.0	566.3	639.8	729.2	755.7	712.4	670.6	670.1	671.1
65°	4685.5	2048.8	574.4	519.2	588.4	672.0	711.0	678.3	644.1	653.8	655.2
67.5°	5504.6	2252.1	503.3	473.0	536.0	617.7	670.6	644.1	609.1	634.1	634.5
70°	5777.1	2070.4	440.8	427.3	481.7	565.3	626.8	606.7	571.1	596.1	593.7
72°	5376.2	1671.4	400.4	392.7	440.8	522.0	587.9	571.6	536.5	553.3	547.0
72.5°	5249.8	1593.5	390.3	384.1	429.8	511.0	577.8	562.9	527.8	542.2	536.5
75°	4683.1	1384.0	335.5	337.0	375.0	457.2	521.1	516.3	480.2	481.7	479.7
77.5°	3396.7	1014.8	282.7	292.3	319.2	401.9	463.9	461.0	421.6	414.4	412.9
80°	1576.2	517.7	230.3	234.6	262.5	336.0	395.6	391.8	360.0	350.9	345.6
82.5°	539.8	246.1	173.1	175.9	203.3	270.6	343.2	340.8	314.4	296.6	285.5
85°	192.8	122.6	121.1	118.3	145.2	213.0	299.0	286.0	247.1	210.5	209.6
87.5°	62.5	52.4	62.5	62.0	84.6	144.2	217.3	185.1	179.3	149.0	146.1
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)