

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: P317746

Luminaire Tested: **GAN-SA2A-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9749 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

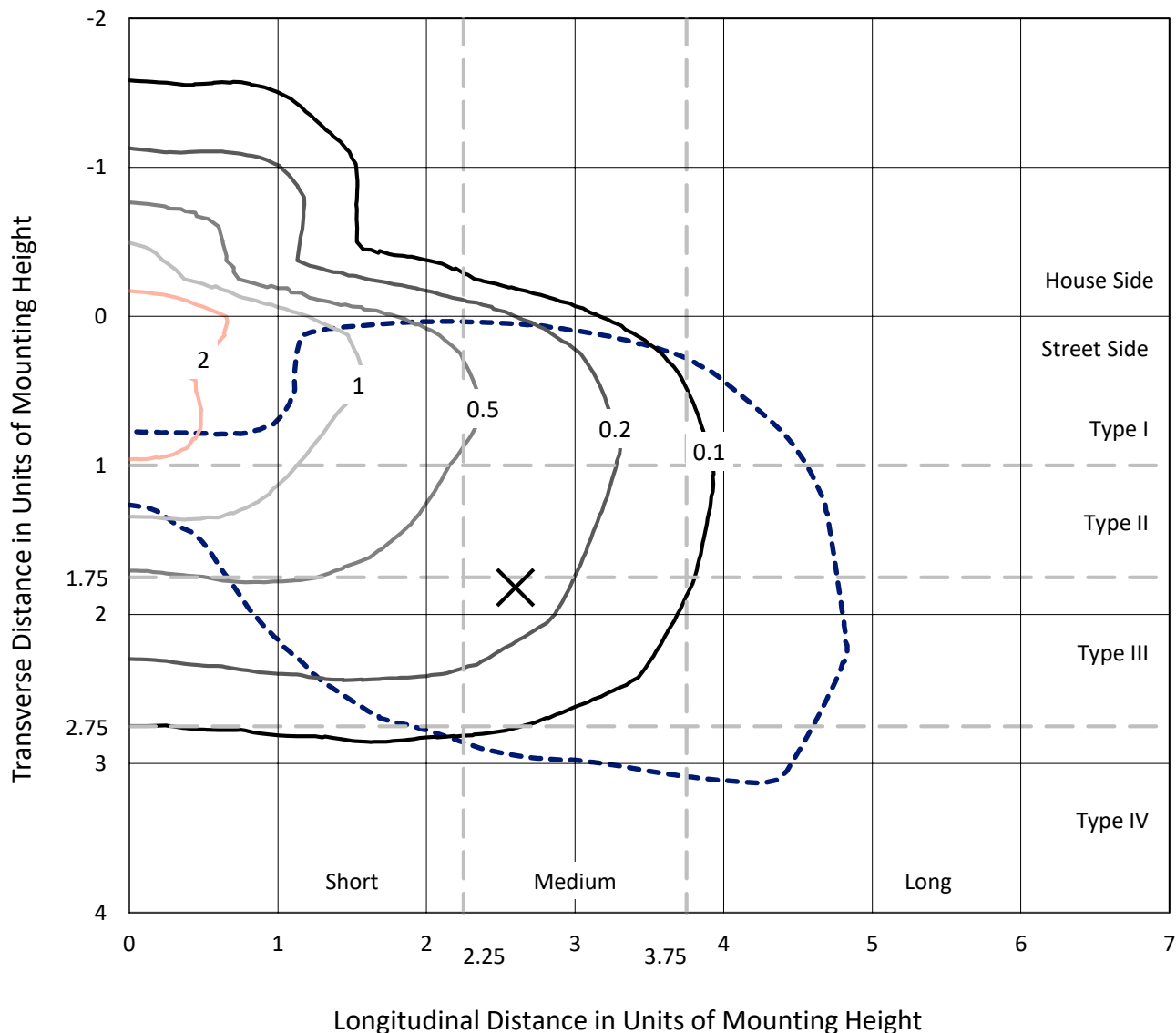
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317746
 CATALOG NUMBER: GAN-SA2A-740-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

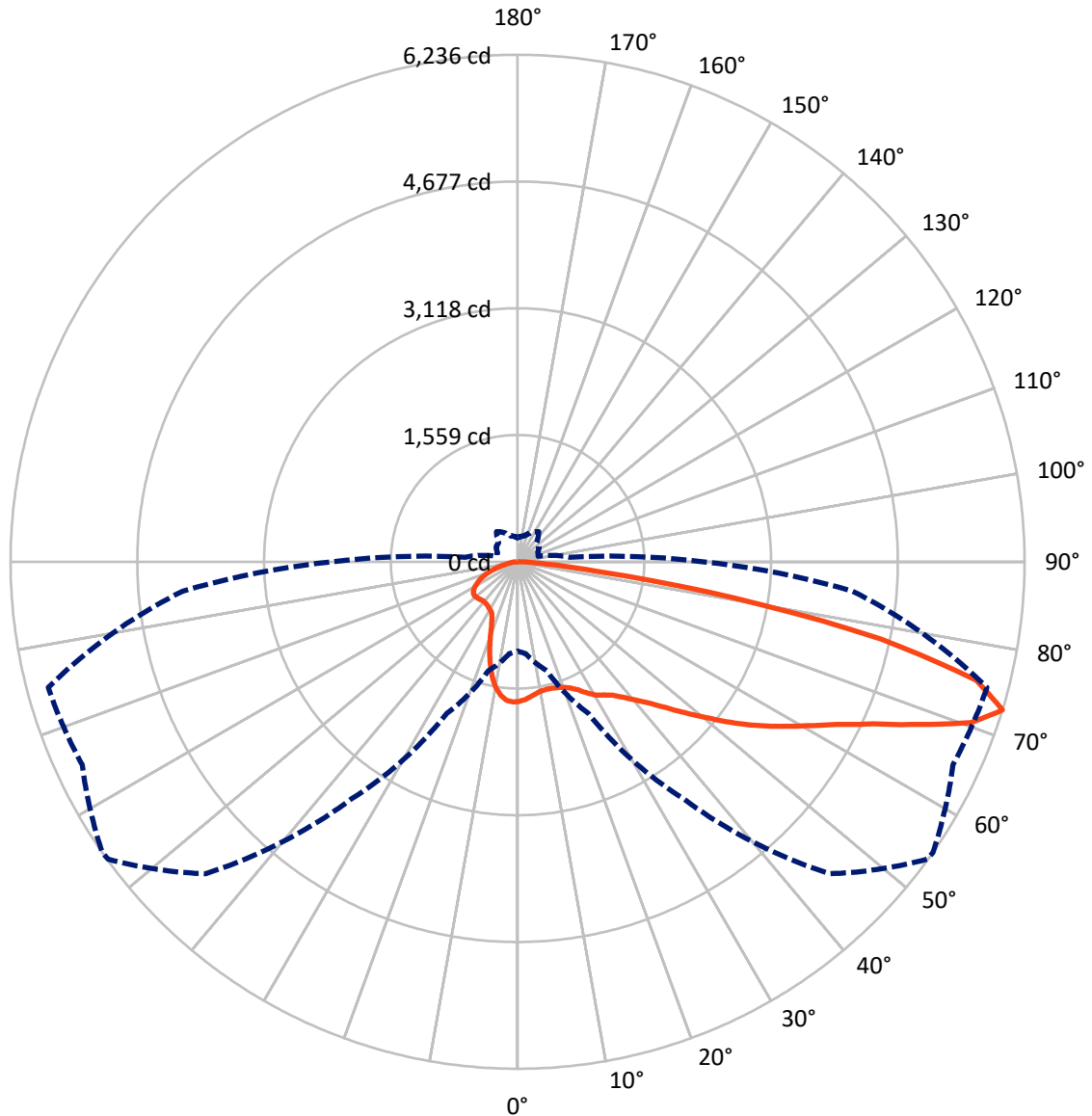
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317746
CATALOG NUMBER: GAN-SA2A-740-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P317746
 CATALOG NUMBER: GAN-SA2A-740-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.0	0.0	1812.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7937.0	0.0	7937.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	9749.0	0.0	9749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.6
10°-20°	414.3	4.2
20°-30°	683.0	7.0
30°-40°	1010.3	10.4
40°-50°	1410.2	14.5
50°-60°	1836.1	18.8
60°-70°	2256.6	23.1
70°-80°	1768.9	18.1
80°-90°	214.1	2.2
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°	9749.0	100.0
0°-180°	9749.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317746

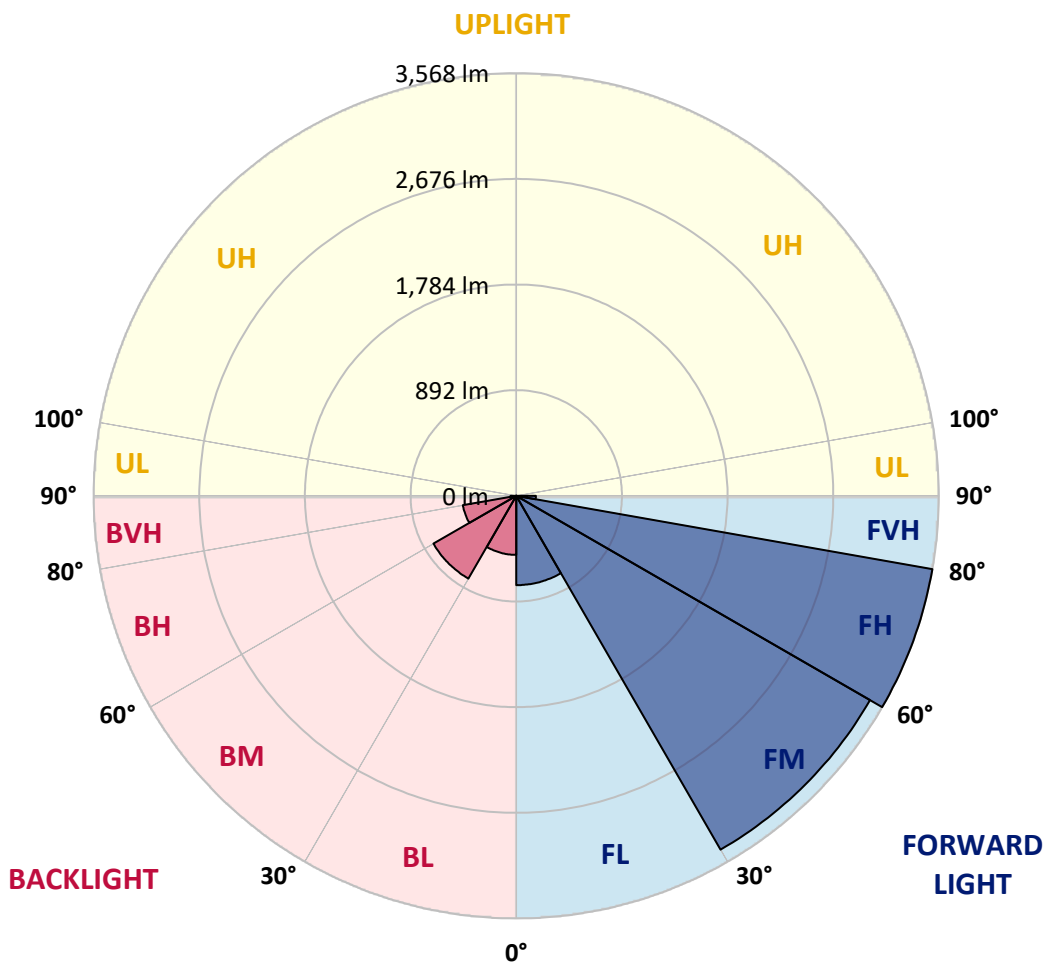
CATALOG NUMBER: GAN-SA2A-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.3	7.7			
FM (30°-60°)	3449.4	35.4			
FH (60°-80°)	3567.8	36.6			G2/5000
FVH (80°-90°)	165.5	1.7			G2/225
BL (0°-30°)	498.6	5.1	B1/500		
BM (30°-60°)	807.3	8.3	B1/1000		
BH (60°-80°)	457.6	4.7	B1/500		G1/500
BVH (80°-90°)	48.6	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 IV Medium





REPORT NUMBER: P317746

CATALOG NUMBER: GAN-SA2A-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5
2.5°	1663.5	1659.6	1664.5	1671.4	1679.0	1689.2	1695.1	1697.8	1708.0	1711.9	1720.5
5°	1586.5	1584.5	1592.7	1604.6	1621.4	1645.1	1664.2	1667.8	1694.8	1713.9	1731.4
7.5°	1530.5	1530.5	1540.1	1554.2	1573.0	1604.9	1631.9	1636.9	1682.6	1723.8	1756.1
10°	1486.1	1487.7	1498.9	1515.7	1537.7	1571.7	1607.6	1613.2	1679.3	1746.8	1798.2
12.5°	1456.4	1460.4	1470.6	1485.7	1513.1	1554.2	1599.7	1607.2	1686.3	1779.8	1848.9
15°	1475.2	1481.8	1482.8	1489.0	1504.2	1548.9	1604.3	1612.2	1701.1	1813.4	1906.5
17.5°	1557.5	1559.8	1549.6	1536.4	1529.2	1557.8	1618.1	1626.3	1718.9	1846.6	1961.9
20°	1682.6	1681.3	1659.3	1623.7	1586.8	1591.4	1640.8	1649.4	1742.9	1875.9	2017.2
22.5°	1840.7	1836.1	1802.2	1736.6	1673.7	1647.4	1680.7	1687.9	1779.1	1917.7	2076.5
25°	2032.3	2022.1	1977.3	1889.4	1796.9	1729.1	1740.6	1747.5	1831.8	1964.5	2130.8
27.5°	2234.5	2224.3	2167.3	2061.0	1937.8	1832.1	1823.2	1829.2	1891.7	1999.1	2171.0
30°	2445.9	2435.0	2383.0	2263.8	2087.3	1938.8	1900.3	1902.6	1933.9	2017.8	2203.9
32.5°	2658.3	2648.1	2589.8	2451.5	2249.7	2053.4	1955.9	1953.0	1959.2	2037.3	2241.1
35°	2873.6	2877.6	2809.4	2656.3	2429.4	2180.8	2021.8	2015.5	2001.7	2077.1	2293.8
37.5°	3104.1	3101.5	3013.3	2853.2	2617.5	2319.1	2116.3	2115.3	2067.6	2152.5	2376.4
40°	3258.3	3259.9	3206.2	3054.8	2807.5	2472.3	2237.5	2235.2	2172.6	2265.5	2484.8
42.5°	3318.5	3329.4	3343.2	3247.1	3006.4	2649.7	2382.0	2378.7	2319.1	2427.5	2612.2
45°	3322.8	3344.5	3430.1	3418.0	3207.9	2852.9	2566.8	2557.5	2514.7	2642.8	2764.3
47.5°	3285.9	3308.3	3450.6	3519.7	3388.0	3067.3	2782.8	2775.5	2738.6	2912.2	2929.0
50°	3205.2	3226.6	3408.4	3569.4	3536.2	3273.4	3031.7	3012.6	2992.8	3223.3	3117.3
52.5°	3054.1	3095.3	3352.1	3581.3	3624.7	3456.5	3293.5	3281.0	3291.8	3551.6	3306.0
55°	2696.2	2742.3	3206.9	3571.4	3690.3	3610.3	3555.3	3554.6	3610.9	3896.1	3508.5
57.5°	2495.6	2528.2	2911.2	3554.6	3768.0	3763.0	3814.4	3820.7	3930.3	4271.1	3720.6
60°	2382.4	2416.6	2761.4	3492.4	3888.5	3960.6	4078.8	4091.3	4255.0	4686.4	3975.8
62.5°	2279.3	2316.8	2668.5	3365.6	4030.4	4243.1	4395.6	4406.8	4598.8	5113.1	4222.4
65°	2103.1	2145.6	2532.5	3282.3	4159.5	4611.6	4798.3	4805.9	4993.6	5560.3	4411.1
67.5°	1854.2	1893.0	2276.0	3098.2	4255.0	5059.1	5333.7	5338.0	5385.1	5876.0	4507.5
70°	1563.4	1578.3	1910.5	2718.2	4142.0	5477.6	5920.5	5921.5	5742.0	6078.2	4491.7
72.5°	1098.5	1133.4	1386.9	2057.7	3559.5	5426.6	6225.1	6236.3	5908.0	5976.2	4132.8
75°	673.7	710.6	870.0	1247.0	2258.2	4267.8	5751.6	5829.3	5596.8	5328.5	3376.1
77.5°	450.5	464.3	567.7	727.1	1023.1	2455.5	4421.9	4568.1	4649.5	3885.9	2159.1
80°	251.2	277.6	376.4	451.8	455.1	975.7	2651.4	2685.6	2586.8	1547.3	666.1
82.5°	133.0	147.5	251.2	265.4	248.3	326.6	988.2	989.2	826.5	414.9	197.9
85°	103.1	115.2	172.2	162.0	126.8	144.9	326.0	343.8	281.2	169.9	64.5
87.5°	51.4	63.9	116.9	102.7	49.7	41.5	116.6	124.5	111.0	66.5	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317746
 CATALOG NUMBER: GAN-SA2A-740-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5	1719.5
2.5°	1723.8	1726.8	1730.4	1726.4	1725.1	1719.8	1711.0	1709.0	1704.4	1704.7	1707.3
5°	1738.9	1743.9	1741.9	1726.8	1708.6	1683.3	1657.0	1634.6	1619.7	1618.8	1617.8
7.5°	1767.9	1771.2	1755.7	1712.6	1661.9	1603.3	1548.0	1499.6	1470.2	1463.0	1461.4
10°	1813.4	1812.7	1770.2	1683.3	1582.2	1477.5	1388.6	1321.4	1282.2	1270.7	1267.7
12.5°	1864.1	1856.5	1775.2	1629.9	1469.6	1324.4	1211.8	1137.0	1096.2	1083.0	1079.7
15°	1916.4	1897.7	1763.0	1550.3	1331.3	1159.4	1041.2	972.0	950.0	942.7	941.4
17.5°	1965.2	1928.9	1728.1	1442.3	1173.6	995.1	902.9	875.2	880.5	890.1	890.4
20°	2012.9	1950.0	1672.1	1305.9	1007.3	859.8	828.5	848.9	873.9	893.3	896.0
22.5°	2060.0	1964.8	1600.0	1148.5	858.4	783.7	805.8	843.0	871.6	892.7	896.3
25°	2099.5	1968.5	1500.5	980.6	755.0	755.0	794.9	830.1	858.4	879.2	882.8
27.5°	2114.0	1944.1	1360.3	825.2	703.0	741.9	779.7	809.0	833.1	855.1	859.1
30°	2119.6	1899.0	1198.3	700.4	681.6	727.7	759.3	784.4	807.1	827.8	831.4
32.5°	2120.6	1844.6	1026.4	629.6	666.8	712.9	734.0	756.0	780.4	788.6	789.9
35°	2126.8	1780.4	845.3	593.4	653.0	699.1	715.9	731.7	692.2	695.1	697.7
37.5°	2144.9	1716.9	693.8	573.0	644.1	691.8	711.9	654.6	623.7	616.4	615.4
40°	2178.9	1649.0	581.5	556.5	640.8	695.4	686.6	611.1	557.8	518.0	512.0
42.5°	2226.0	1575.9	509.7	545.6	643.1	712.9	651.3	569.3	480.8	455.1	451.8
45°	2279.0	1499.2	470.9	538.0	651.0	726.4	644.1	513.7	444.9	425.4	423.8
47.5°	2330.3	1405.4	450.8	534.8	661.9	715.5	613.5	496.6	427.7	417.5	418.5
50°	2389.3	1320.8	438.6	531.1	671.4	708.6	578.9	487.7	421.2	433.7	446.8
52.5°	2439.0	1233.2	427.7	523.9	675.0	696.4	570.0	489.3	421.2	445.2	457.7
55°	2497.9	1167.0	415.2	508.7	668.1	661.9	563.7	499.2	426.1	410.9	412.3
57.5°	2574.0	1145.2	401.4	485.0	645.1	611.5	560.8	508.7	423.1	413.6	416.9
60°	2679.4	1168.3	395.8	454.1	609.2	572.0	561.1	503.8	402.4	385.9	386.2
62.5°	2779.8	1194.0	395.5	434.7	565.0	536.7	553.5	487.7	391.8	382.3	385.9
65°	2812.7	1168.0	379.7	412.9	515.3	494.6	539.7	470.5	383.9	369.5	368.8
67.5°	2768.6	1087.3	347.7	377.7	458.4	445.5	521.6	450.1	371.4	359.6	357.6
70°	2637.6	907.2	308.2	331.3	393.5	390.2	492.9	426.4	354.6	344.4	335.9
72.5°	2284.9	646.4	259.8	275.6	320.4	330.9	453.4	395.5	330.9	308.9	295.7
75°	1876.6	478.4	213.4	216.7	243.3	272.0	399.1	359.2	302.9	265.4	255.2
77.5°	1149.2	292.7	169.9	171.2	174.5	217.0	328.6	318.7	267.4	221.3	214.0
80°	372.1	159.7	122.8	129.1	119.2	159.0	254.2	271.3	229.5	185.1	177.2
82.5°	141.6	93.2	83.0	87.3	82.6	106.7	185.4	217.3	188.0	152.1	123.8
85°	68.5	52.7	49.1	55.0	51.0	54.7	118.5	160.0	142.6	99.1	92.2
87.5°	24.4	23.4	18.8	25.4	21.7	19.4	36.2	80.7	94.2	68.2	60.9
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)