

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: P192290

Luminaire Tested: **GAN-AF-02-LED-U-T3R-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-T3R-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12453 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

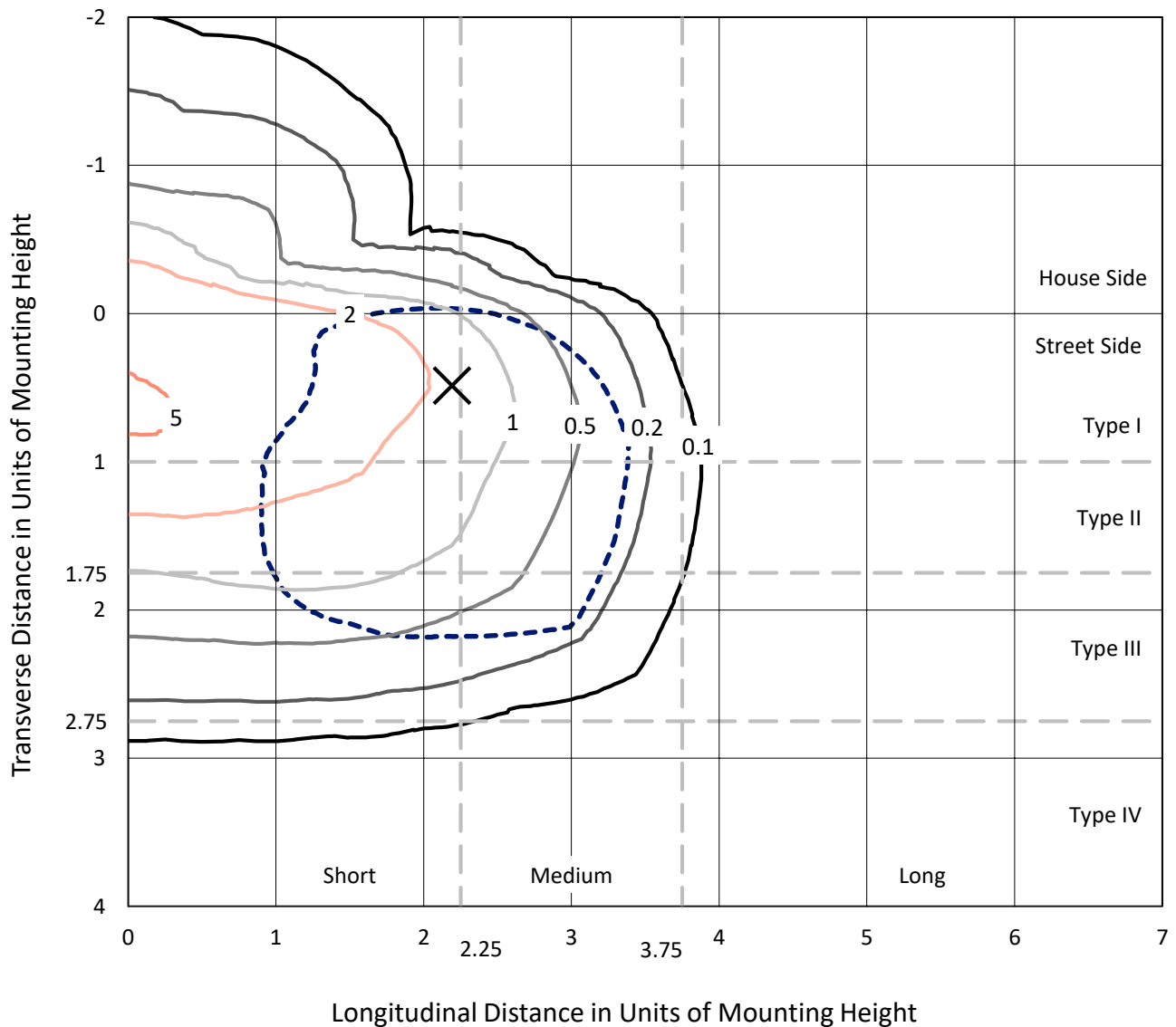
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

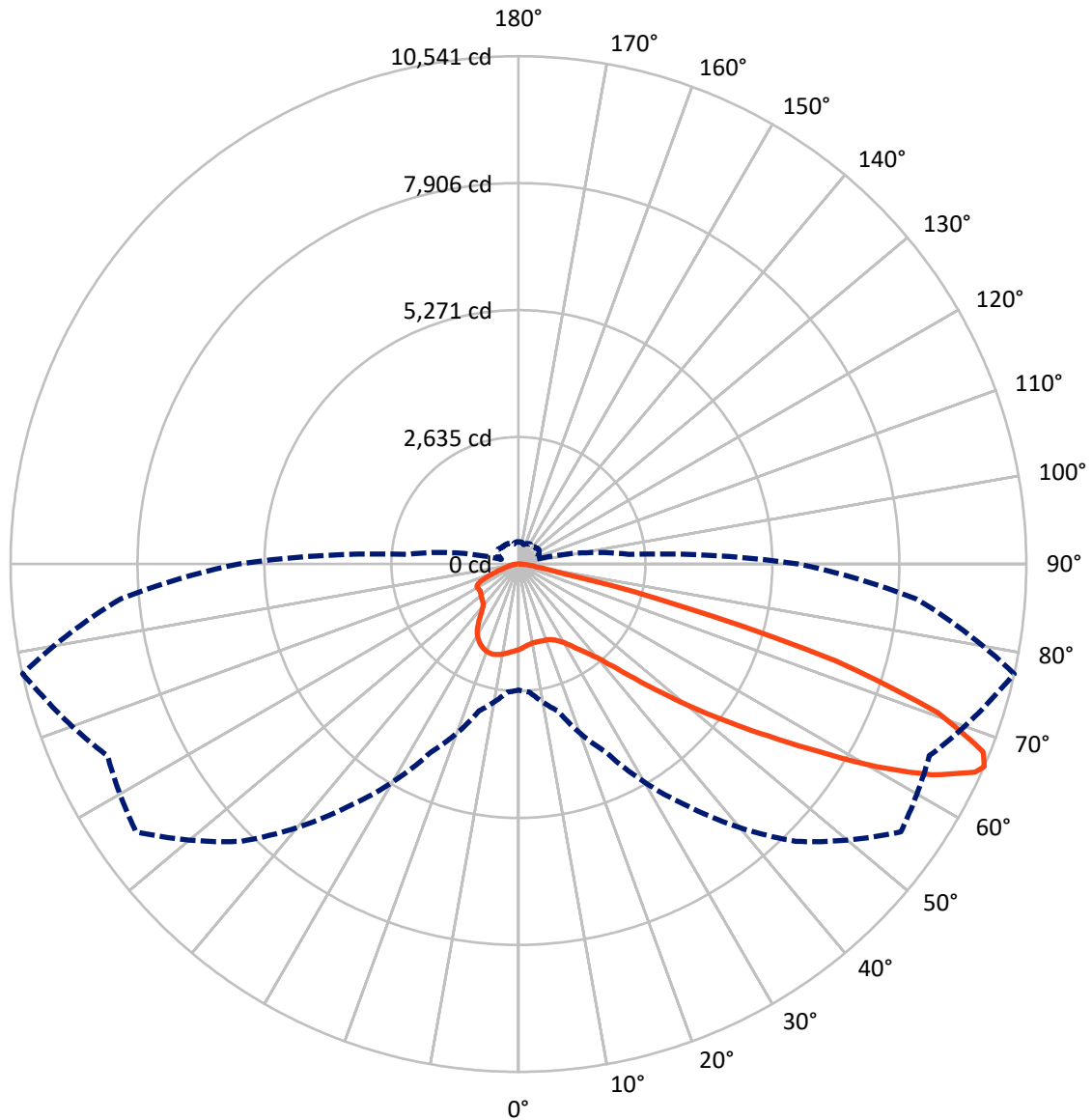
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2127.5	0.0	2127.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	10325.5	0.0	10325.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	12453.0	0.0	12453.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	1.3
10°-20°	447.3	3.6
20°-30°	763.4	6.1
30°-40°	1222.0	9.8
40°-50°	1887.9	15.2
50°-60°	2677.7	21.5
60°-70°	3582.0	28.8
70°-80°	1555.6	12.5
80°-90°	158.6	1.3
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°	12453.0	100.0
0°-180°	12453.0	100.0



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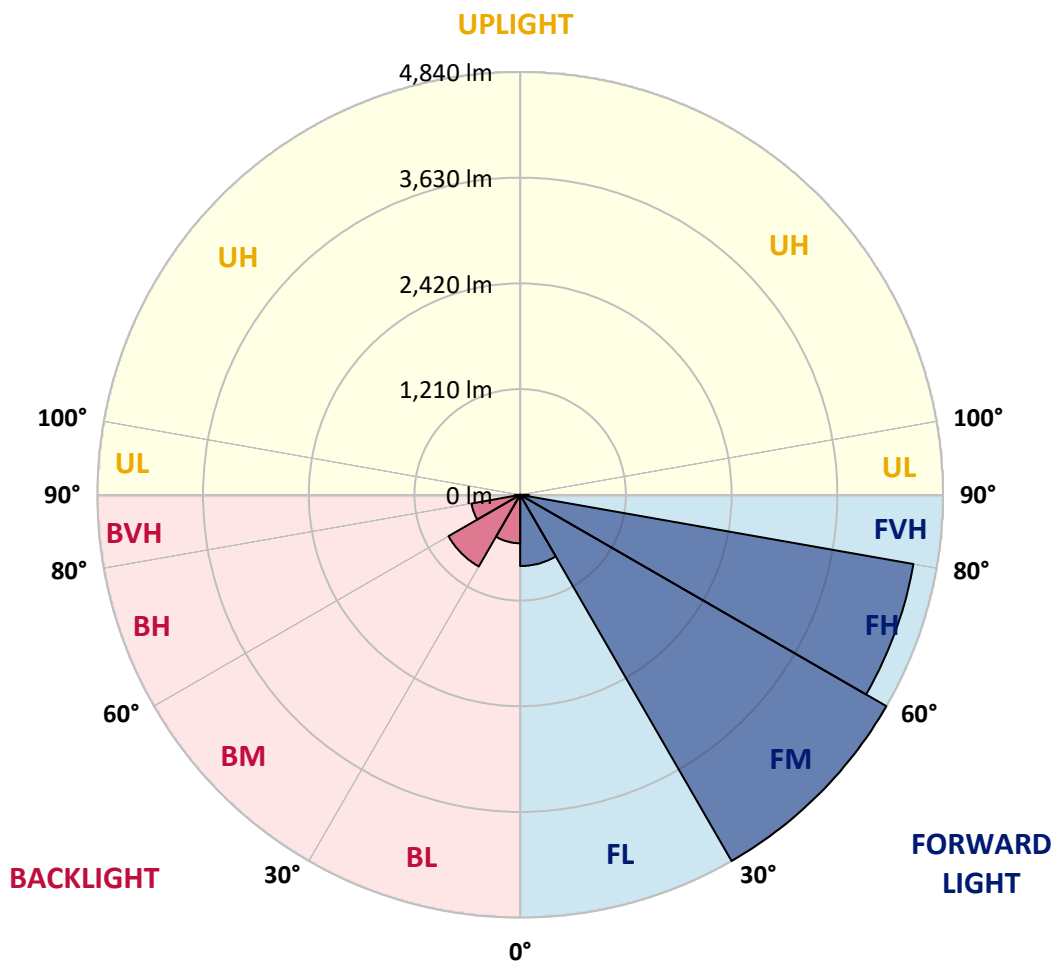
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	815.1	6.5			
FM	(30°-60°)	4839.9	38.9			
FH	(60°-80°)	4571.0	36.7			G2/5000
FVH	(80°-90°)	99.5	0.8			G1/100
BL	(0°-30°)	554.1	4.4	B2/1000		
BM	(30°-60°)	947.7	7.6	B1/1000		
BH	(60°-80°)	566.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	59.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6
2.5°	1569.8	1580.4	1589.3	1597.5	1614.0	1641.0	1672.2	1697.5	1734.0	1741.1	1760.5
5°	1425.7	1425.7	1432.8	1445.1	1467.5	1508.1	1550.4	1606.9	1686.4	1705.2	1757.0
7.5°	1355.7	1356.3	1360.4	1371.0	1390.4	1427.5	1473.9	1540.4	1648.1	1679.3	1767.6
10°	1381.6	1375.7	1366.9	1361.6	1364.5	1386.3	1430.4	1504.5	1624.6	1664.6	1791.1
12.5°	1526.3	1515.1	1484.5	1443.9	1405.1	1389.2	1415.1	1487.5	1614.6	1661.1	1822.3
15°	1762.8	1758.1	1701.1	1616.9	1522.8	1443.9	1426.3	1481.0	1615.7	1665.2	1859.3
17.5°	2059.4	2052.9	1977.6	1855.2	1701.7	1548.1	1465.7	1486.3	1619.9	1672.2	1895.2
20°	2358.9	2338.9	2257.7	2111.8	1914.7	1689.9	1531.0	1499.8	1625.2	1679.9	1932.9
22.5°	2582.5	2566.0	2493.0	2351.2	2124.1	1854.0	1618.7	1523.4	1642.2	1702.2	1979.4
25°	2779.0	2780.2	2707.8	2570.7	2335.9	2028.2	1731.7	1586.3	1685.8	1748.1	2042.9
27.5°	3022.0	3007.9	2940.2	2804.3	2545.4	2204.1	1868.2	1672.8	1750.5	1813.4	2126.5
30°	3312.7	3302.7	3224.4	3070.3	2777.8	2393.0	2024.1	1773.4	1834.0	1899.4	2235.9
32.5°	3654.5	3649.8	3568.6	3370.4	3046.1	2615.4	2207.1	1906.4	1958.8	2026.4	2393.0
35°	4055.8	4056.4	3960.5	3722.2	3339.8	2874.3	2414.8	2077.6	2110.6	2181.2	2580.1
37.5°	4303.0	4333.0	4297.1	4054.1	3672.2	3163.8	2684.3	2304.8	2283.6	2354.8	2780.8
40°	4355.9	4392.4	4506.0	4382.4	4044.1	3482.7	2923.2	2523.1	2496.6	2583.7	3039.1
42.5°	4281.8	4332.4	4572.4	4659.5	4438.9	3875.8	3244.4	2847.3	2813.7	2930.8	3360.3
45°	4237.7	4275.3	4553.0	4803.7	4781.3	4320.0	3653.4	3254.4	3242.1	3395.7	3731.0
47.5°	4161.2	4195.3	4462.4	4837.2	4982.6	4727.2	4144.7	3752.2	3776.3	3977.6	4149.4
50°	4202.3	4216.5	4361.2	4751.9	5040.8	5025.5	4693.7	4328.9	4411.2	4662.5	4623.1
52.5°	4196.5	4232.9	4349.4	4611.9	5048.5	5209.7	5234.4	4972.0	5145.6	5433.9	5148.5
55°	3392.7	3459.8	4211.2	4576.6	5075.5	5390.3	5715.7	5649.8	5973.4	6309.4	5741.6
57.5°	3239.7	3282.1	3698.7	4650.7	5219.1	5735.1	6251.2	6395.9	6937.2	7327.3	6464.2
60°	3209.7	3262.1	3693.4	4741.3	5510.4	6297.0	7044.9	7299.1	8109.9	8537.1	7302.0
62.5°	3116.2	3172.6	3658.7	4729.6	5924.0	7074.3	8061.1	8259.4	9222.0	9637.4	8002.8
65°	2819.6	2872.6	3375.6	4539.5	6202.9	7904.0	9263.8	9139.6	10099.9	10412.3	8352.3
66°	2616.6	2668.4	3152.6	4315.9	6138.2	8139.3	9689.8	9412.0	10296.4	10541.2	8284.1
67.5°	2245.3	2285.9	2719.6	3815.2	5794.0	8205.2	10048.1	9616.8	10317.0	10403.5	7894.0
70°	1418.6	1430.4	1767.6	2633.7	4385.9	7116.1	9502.6	9108.4	9466.2	9232.0	6617.7
72.5°	615.5	611.3	848.5	1339.8	2483.0	4774.9	7686.8	7515.6	7425.6	6891.3	4632.5
75°	342.4	347.2	440.7	621.9	1009.1	2345.4	5028.5	4811.9	4062.9	3466.8	2100.6
77.5°	274.8	281.3	365.4	441.3	453.1	817.9	2353.0	1914.7	1152.7	925.0	583.7
80°	217.1	228.9	318.9	343.6	305.4	337.2	760.2	607.8	456.0	418.4	302.4
82.5°	171.8	180.1	273.6	260.1	213.6	227.1	364.2	354.8	296.6	270.1	174.8
85°	123.6	138.9	224.8	195.9	140.0	153.0	241.8	231.8	170.0	138.9	77.1
87.5°	50.6	65.9	158.9	130.0	78.3	71.2	120.6	113.6	80.6	58.8	38.2
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°	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6
2.5°	1772.8	1787.0	1805.2	1816.4	1822.3	1826.4	1832.9	1832.3	1834.0	1834.6	1837.0
5°	1784.6	1808.2	1834.6	1841.7	1841.7	1835.2	1828.7	1818.2	1814.0	1812.9	1814.0
7.5°	1815.2	1841.1	1864.0	1855.8	1838.2	1812.3	1778.7	1749.3	1733.4	1728.1	1727.0
10°	1854.0	1885.2	1894.6	1863.5	1811.7	1749.3	1682.8	1634.6	1606.9	1599.3	1596.9
12.5°	1901.1	1930.5	1917.6	1851.7	1755.8	1655.2	1563.4	1486.3	1428.6	1410.4	1409.2
15°	1952.9	1975.8	1930.5	1815.2	1672.2	1524.0	1360.4	1227.4	1155.6	1132.7	1130.9
17.5°	2001.1	2012.9	1922.9	1751.7	1549.3	1309.2	1092.1	989.7	965.0	970.9	972.0
20°	2042.3	2042.3	1897.0	1660.5	1355.7	1026.2	889.1	887.3	905.0	922.6	926.1
22.5°	2087.6	2060.6	1851.7	1531.6	1081.5	839.6	819.6	836.1	856.1	875.5	878.5
25°	2143.5	2075.3	1788.7	1336.3	850.2	762.6	770.2	783.7	793.8	806.1	807.9
27.5°	2205.9	2094.1	1705.8	1067.4	737.9	714.3	720.2	724.9	723.7	728.4	729.6
30°	2280.6	2115.9	1592.2	834.3	691.4	673.1	662.5	658.4	658.4	666.1	669.0
32.5°	2380.7	2148.2	1429.2	714.9	669.0	643.7	609.6	594.3	600.2	626.1	631.9
35°	2490.7	2183.0	1208.6	674.3	664.3	630.2	577.2	549.0	549.6	573.7	581.3
37.5°	2610.7	2227.1	966.7	666.7	674.9	630.8	560.2	521.3	505.4	505.4	508.4
40°	2764.3	2272.4	782.6	672.0	697.3	637.8	551.3	499.6	454.8	456.0	458.4
42.5°	2964.4	2311.2	683.7	683.1	724.3	647.2	550.7	470.7	431.9	458.4	482.5
45°	3186.8	2330.6	640.2	693.1	746.1	653.1	541.3	466.0	434.8	513.7	559.6
47.5°	3442.7	2319.5	616.1	696.7	751.4	653.1	530.7	477.2	455.4	594.9	648.4
50°	3723.4	2287.1	592.5	689.6	749.6	651.9	540.7	488.4	463.1	609.0	646.1
52.5°	4053.5	2260.0	567.8	674.3	737.3	645.5	552.5	483.7	438.9	553.7	579.6
55°	4430.1	2267.7	540.2	652.5	717.8	633.1	548.4	464.8	413.6	487.8	503.7
57.5°	4911.4	2358.9	507.2	624.9	691.4	612.5	533.7	456.0	406.0	442.5	451.9
60°	5448.6	2517.8	466.0	597.2	658.4	579.6	522.5	460.1	409.5	438.9	443.7
62.5°	5842.8	2610.1	430.7	556.6	613.7	543.1	508.4	465.4	418.9	451.3	450.1
65°	5949.9	2458.3	386.6	497.2	553.1	504.8	490.7	471.3	423.1	461.3	456.0
66°	5799.8	2294.8	367.2	469.5	522.5	486.0	481.9	470.7	421.3	462.5	453.7
67.5°	5435.6	1959.4	333.6	428.9	473.7	457.8	467.8	465.4	416.6	461.3	448.9
70°	4433.0	1336.8	285.4	357.2	394.2	403.1	440.7	446.6	401.3	440.7	413.6
72.5°	3097.3	814.3	252.4	277.1	318.9	343.6	403.6	420.7	380.7	384.8	358.9
75°	1496.9	432.5	228.9	214.8	247.7	287.1	358.9	385.4	348.3	321.9	312.4
77.5°	466.6	264.2	194.2	173.0	194.2	231.8	300.1	337.7	310.1	269.5	266.0
80°	250.7	194.2	149.5	138.9	153.6	181.8	235.9	281.8	266.5	241.8	215.9
82.5°	165.3	125.9	110.6	107.7	117.1	138.9	175.3	233.6	233.6	207.1	150.6
85°	85.3	77.1	75.9	75.9	81.8	92.4	119.4	180.1	191.8	109.4	90.6
87.5°	42.4	44.1	41.2	43.0	45.9	45.3	57.1	90.6	108.3	66.5	55.3
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)