

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: P318136

Luminaire Tested: **GAN-SA2D-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318136
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-SA2D-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15579 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

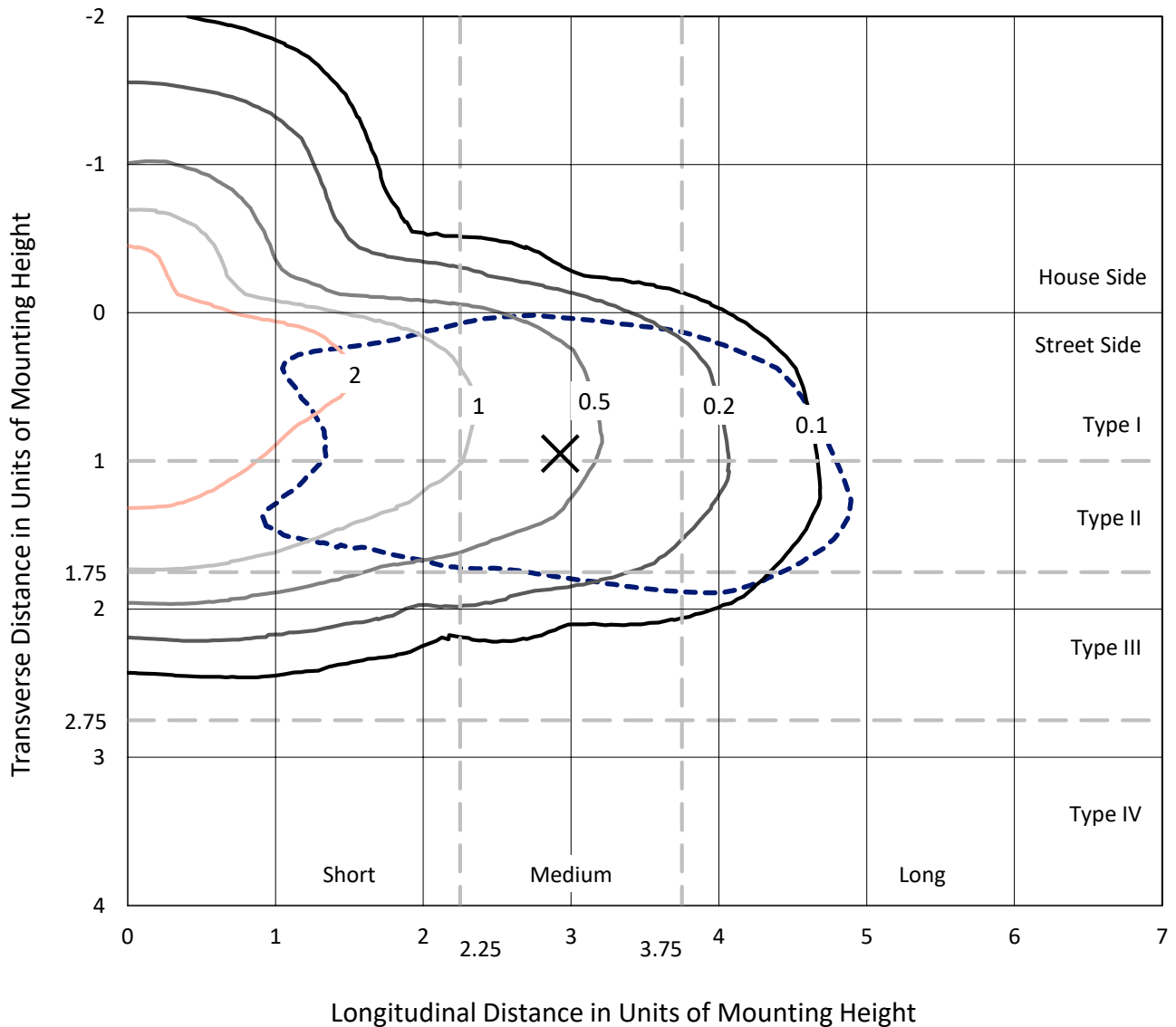
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

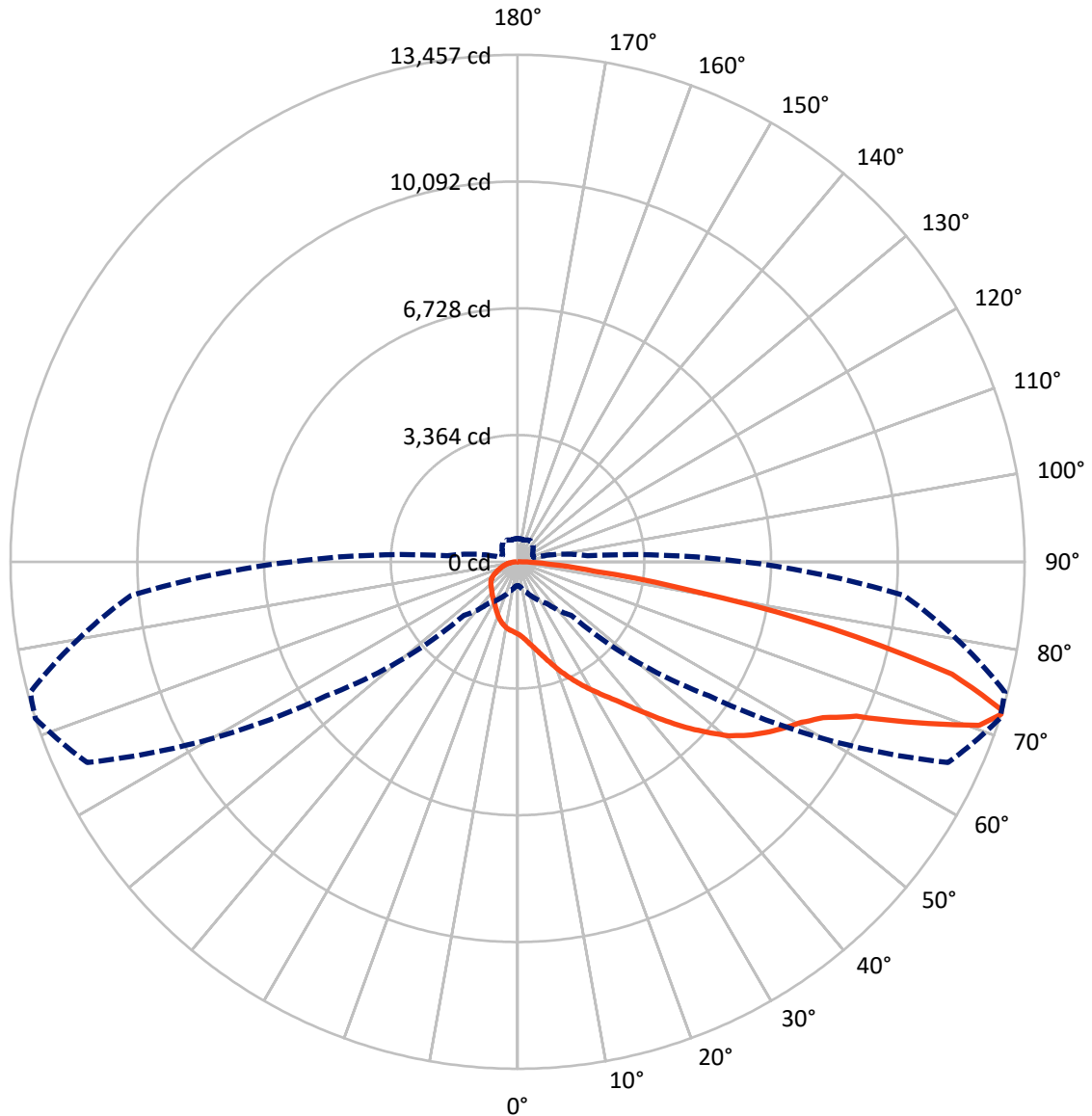
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2890.0	0.0	2890.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12689.0	0.0	12689.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	15579.0	0.0	15579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	1.2
10°-20°	620.6	4.0
20°-30°	1087.5	7.0
30°-40°	1612.4	10.4
40°-50°	2358.3	15.1
50°-60°	3245.0	20.8
60°-70°	3612.7	23.2
70°-80°	2448.0	15.7
80°-90°	402.3	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°	15579.0	100.0
0°-180°	15579.0	100.0

Coefficient of Utilization

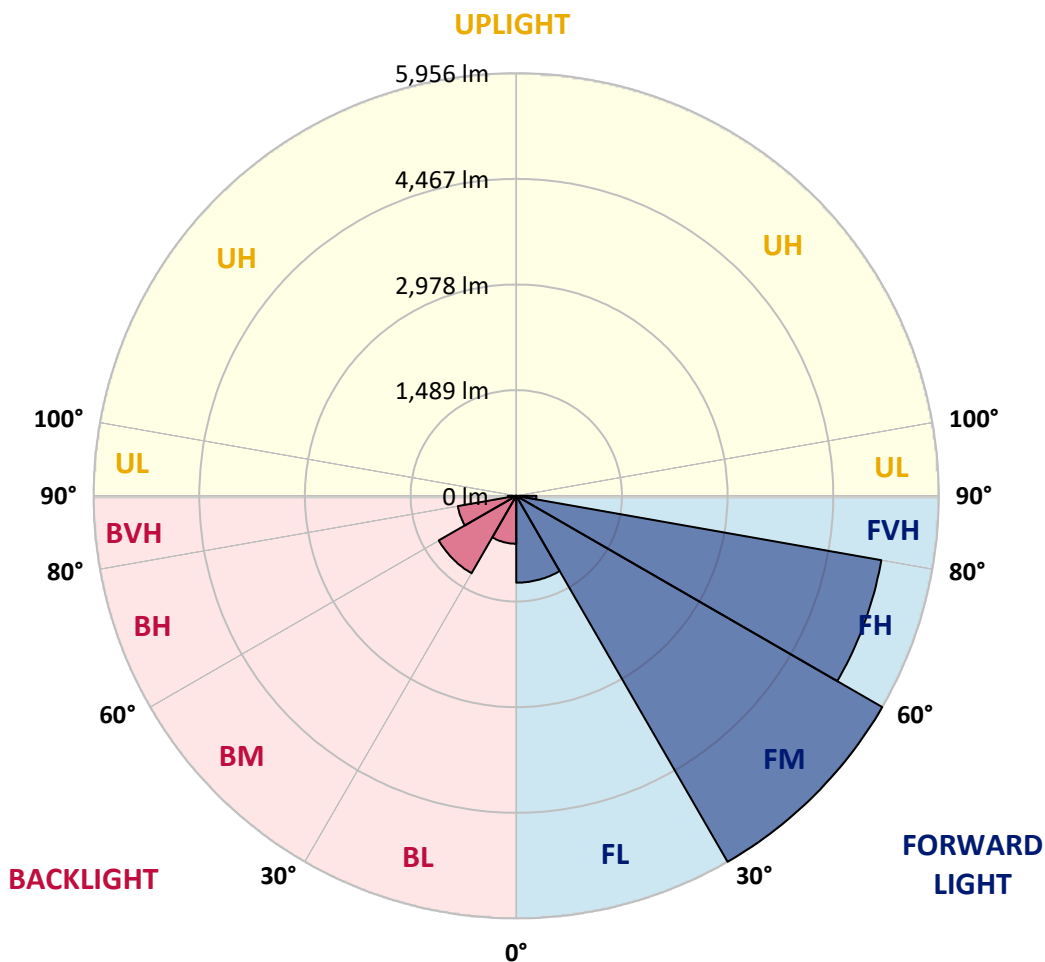


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.6	7.9			
FM (30°-60°)	5956.0	38.2			
FH (60°-80°)	5224.5	33.5			G3/7500
FVH (80°-90°)	283.8	1.8			G3/500
BL (0°-30°)	675.6	4.3	B2/1000		
BM (30°-60°)	1259.8	8.1	B2/2500		
BH (60°-80°)	836.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	118.5	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°	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
2.5°	2117.2	2114.0	2102.8	2102.8	2081.3	2063.1	2028.7	2005.7	1978.3	1968.7	1936.5
5°	2322.2	2323.2	2309.3	2299.6	2268.0	2229.4	2170.9	2117.8	2064.7	2043.2	1977.2
7.5°	2494.3	2492.2	2488.4	2480.4	2450.9	2411.2	2332.3	2253.5	2175.2	2143.0	2029.3
10°	2604.8	2609.7	2612.9	2616.6	2604.3	2575.9	2501.3	2405.3	2302.8	2258.9	2091.5
12.5°	2660.6	2669.2	2684.2	2710.0	2730.4	2727.2	2673.0	2571.1	2449.3	2394.0	2169.3
15°	2693.4	2704.6	2728.2	2774.4	2831.8	2864.5	2850.0	2757.7	2622.0	2553.9	2264.2
17.5°	2713.7	2722.9	2759.3	2821.0	2906.3	2993.2	3031.3	2954.1	2817.3	2739.5	2373.1
20°	2727.7	2734.7	2780.3	2852.7	2963.2	3101.6	3207.8	3188.5	3032.4	2931.5	2486.8
22.5°	2758.8	2764.7	2808.2	2881.1	3003.4	3182.0	3377.8	3406.8	3259.3	3145.0	2608.6
25°	2845.7	2845.7	2882.2	2933.1	3047.9	3251.8	3521.6	3649.8	3491.0	3358.0	2721.3
27.5°	3011.5	3009.8	3023.3	3041.0	3127.9	3322.6	3649.8	3864.4	3731.3	3586.0	2830.7
30°	3207.8	3218.5	3220.1	3211.5	3252.3	3411.1	3768.3	4090.7	3973.3	3816.6	2942.8
32.5°	3460.4	3467.4	3459.4	3430.9	3425.0	3536.6	3884.7	4327.8	4235.0	4057.5	3045.2
35°	3781.2	3767.8	3742.6	3684.7	3629.4	3704.5	4017.8	4564.9	4529.0	4348.7	3186.3
37.5°	4125.1	4125.6	4094.5	3963.1	3886.9	3919.1	4201.2	4833.7	4884.6	4695.3	3367.1
40°	4400.8	4415.3	4434.6	4261.8	4163.1	4207.7	4434.6	5145.3	5305.2	5106.2	3602.6
42.5°	4593.4	4610.0	4664.7	4556.3	4453.9	4536.5	4709.2	5477.9	5777.2	5580.4	3878.3
45°	4797.2	4806.3	4844.9	4798.3	4732.8	4919.0	5018.7	5822.3	6276.6	6085.7	4186.7
47.5°	5011.8	5021.4	5061.1	5030.0	4995.7	5276.2	5341.7	6146.8	6755.1	6640.9	4516.1
50°	5276.7	5283.2	5320.7	5264.4	5275.1	5545.5	5630.2	6444.5	7256.7	7139.7	4846.5
52.5°	5638.3	5639.9	5691.9	5641.0	5590.6	5742.9	5878.6	6725.1	7649.9	7594.6	5177.0
55°	5921.5	5938.7	6109.3	6098.5	6069.6	5922.1	6086.2	6992.2	8000.7	8027.0	5527.8
57.5°	5740.8	5807.8	6153.3	6396.8	6633.9	6367.8	6366.8	7293.1	8326.8	8451.3	5913.5
60°	5027.9	5119.0	5628.1	6168.3	6910.1	7143.5	6949.3	7660.6	8656.2	8871.8	6396.8
62.5°	3590.8	3741.0	4430.8	5293.4	6531.4	7657.4	8134.8	8243.7	9104.1	9358.9	7024.9
65°	1815.2	1929.0	2507.2	3546.3	5218.3	7321.6	9423.3	9520.4	9882.4	10108.8	7992.1
67.5°	1102.9	1145.8	1427.9	1972.4	3199.2	5703.2	9843.8	11648.3	11388.7	11508.9	9371.2
70°	812.7	844.3	1020.3	1309.9	1839.9	3346.7	8553.2	13166.9	12996.3	12982.9	10390.4
72°	633.0	656.0	811.6	1058.4	1345.3	2007.8	6199.4	12606.4	13456.6	13389.0	10297.1
72.5°	600.3	620.6	762.3	996.1	1271.3	1820.1	5573.9	12228.2	13423.3	13392.8	10176.4
75°	472.6	487.1	564.3	770.3	995.1	1032.6	3054.4	9476.4	11908.0	12403.1	9152.9
77.5°	391.0	393.2	434.0	560.6	775.7	730.1	1500.4	6574.9	8526.9	9071.4	6483.7
80°	318.6	321.3	340.6	393.2	586.8	540.2	712.4	3780.7	4774.1	4780.0	3083.3
82.5°	253.7	254.3	275.7	287.5	421.6	386.2	408.2	1775.0	2086.1	2006.7	1108.2
85°	178.6	174.9	269.3	236.0	275.7	247.8	225.3	702.7	862.6	825.0	347.1
87.5°	59.5	61.7	119.6	152.9	160.9	140.5	100.3	269.3	325.6	322.9	110.0
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°	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
2.5°	1926.3	1909.1	1883.9	1856.0	1834.0	1811.5	1794.9	1786.3	1776.6	1768.6	1778.2
5°	1946.7	1914.5	1860.8	1808.3	1769.6	1735.3	1710.6	1697.8	1686.0	1677.9	1679.0
7.5°	1979.9	1927.9	1837.8	1761.1	1707.4	1670.4	1645.2	1636.6	1629.1	1627.0	1629.6
10°	2015.3	1938.6	1807.2	1705.3	1644.1	1613.5	1602.3	1608.2	1613.5	1618.4	1623.7
12.5°	2055.6	1948.3	1762.7	1639.8	1587.8	1576.0	1587.3	1613.0	1631.8	1643.0	1650.0
15°	2108.1	1956.9	1711.2	1574.4	1539.5	1552.9	1591.0	1635.5	1668.3	1689.2	1692.4
17.5°	2156.4	1956.3	1645.2	1508.4	1500.4	1539.5	1596.9	1659.7	1703.7	1733.2	1739.1
20°	2206.3	1941.8	1568.5	1444.0	1460.7	1525.0	1599.6	1675.2	1728.3	1762.7	1770.7
22.5°	2253.0	1916.6	1484.3	1385.6	1427.4	1505.7	1589.4	1666.1	1719.2	1747.1	1755.7
25°	2284.6	1872.6	1399.0	1336.2	1397.9	1482.1	1556.2	1617.8	1657.5	1671.5	1673.6
27.5°	2300.7	1815.2	1318.5	1293.3	1367.3	1443.5	1494.5	1525.0	1536.3	1535.2	1533.1
30°	2302.8	1739.6	1249.3	1258.4	1331.9	1386.6	1410.8	1404.9	1390.4	1365.7	1367.9
32.5°	2295.9	1654.3	1191.4	1225.2	1286.9	1317.4	1318.5	1290.1	1251.5	1212.3	1201.6
35°	2298.0	1570.6	1140.4	1187.6	1232.2	1245.6	1233.2	1191.4	1138.8	1088.4	1077.7
37.5°	2321.6	1497.7	1096.4	1144.2	1171.5	1174.8	1157.1	1113.1	1074.4	1025.1	1020.8
40°	2377.9	1445.6	1054.6	1095.4	1110.9	1112.5	1087.3	1056.2	1059.4	1033.1	1032.6
42.5°	2479.3	1423.1	1017.6	1044.4	1054.1	1057.3	1038.0	1018.1	1046.0	1028.9	1023.0
45°	2610.2	1428.5	986.5	994.5	1012.2	1027.2	1015.4	991.3	1002.0	927.5	902.8
47.5°	2761.5	1462.8	961.8	951.6	982.2	1010.6	992.4	955.9	917.8	843.8	829.8
50°	2938.5	1515.9	939.3	909.2	949.5	988.1	969.8	917.8	860.4	824.5	819.6
52.5°	3123.0	1580.8	916.7	862.6	908.2	970.9	961.8	909.2	838.4	803.0	796.6
55°	3332.2	1646.3	888.3	808.4	863.6	962.9	958.0	878.1	821.8	801.9	797.1
57.5°	3592.4	1720.8	850.8	752.1	821.8	933.9	918.9	859.3	804.6	789.6	788.0
60°	3931.4	1830.8	796.6	692.0	770.8	889.4	886.2	832.0	777.3	766.5	764.4
62.5°	4439.9	2012.6	722.0	631.9	714.0	813.7	843.2	795.0	748.3	747.8	748.8
65°	5228.5	2286.2	641.0	579.3	656.6	749.9	793.4	756.9	718.8	729.5	731.1
67.5°	6142.5	2513.1	561.6	527.8	598.1	689.3	748.3	718.8	679.6	707.5	708.1
70°	6446.7	2310.4	491.9	476.9	537.5	630.8	699.5	677.0	637.3	665.2	662.5
72°	5999.3	1865.1	446.8	438.3	491.9	582.6	656.0	637.8	598.6	617.4	610.4
72.5°	5858.2	1778.2	435.6	428.6	479.6	570.2	644.8	628.1	589.0	605.1	598.6
75°	5225.8	1544.3	374.4	376.0	418.4	510.1	581.5	576.1	535.9	537.5	535.3
77.5°	3790.3	1132.4	315.4	326.1	356.2	448.4	517.6	514.4	470.4	462.4	460.8
80°	1758.9	577.7	256.9	261.8	292.9	375.0	441.5	437.2	401.8	391.6	385.7
82.5°	602.4	274.6	193.1	196.3	226.9	302.0	383.0	380.3	350.8	331.0	318.6
85°	215.1	136.8	135.2	132.0	162.0	237.6	333.7	319.2	275.7	235.0	233.9
87.5°	69.7	58.5	69.7	69.2	94.4	160.9	242.5	206.5	200.1	166.3	163.1
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)