

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: P318096

Luminaire Tested: **GAN-SA2D-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318096  
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-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15580 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

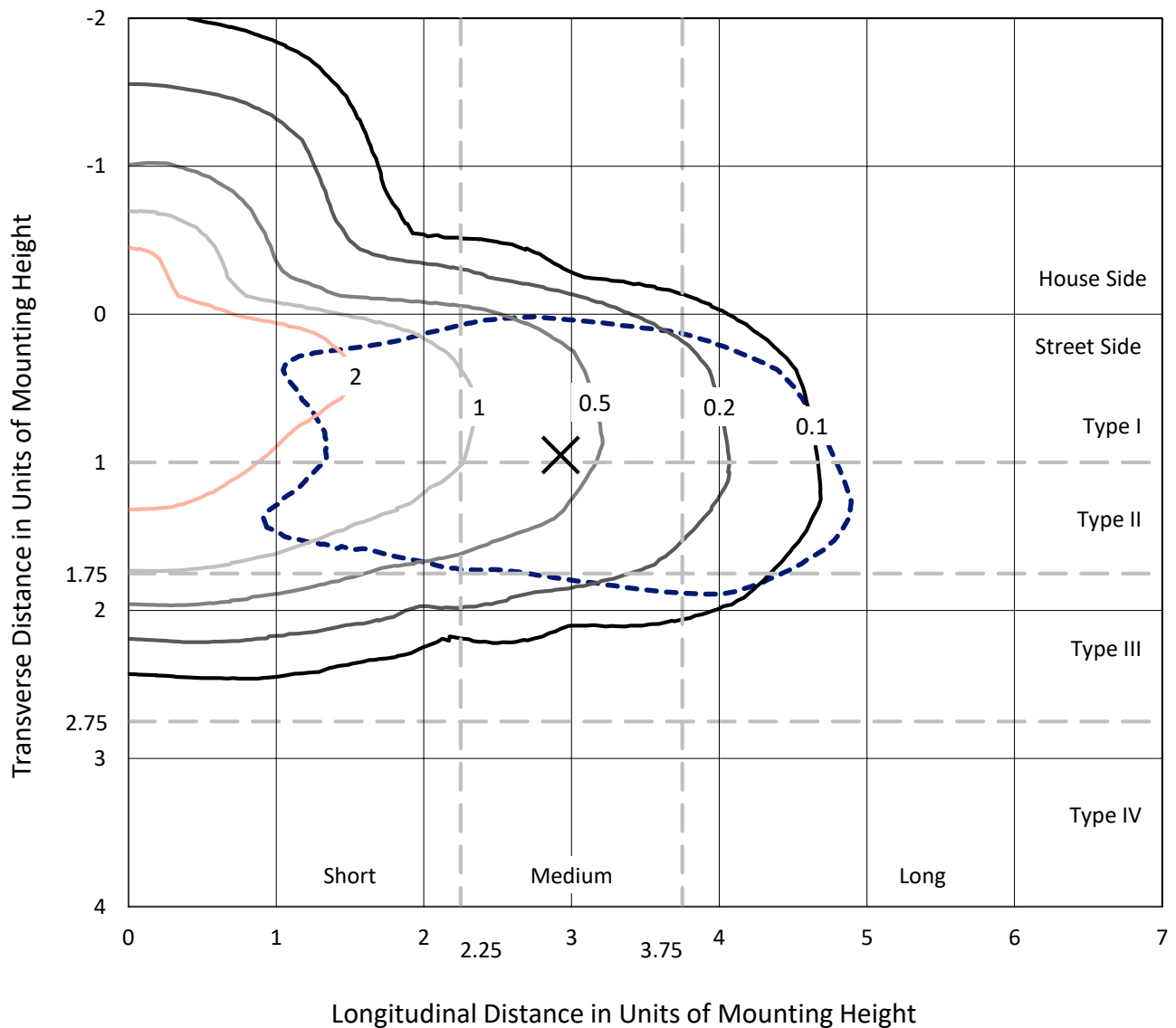
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

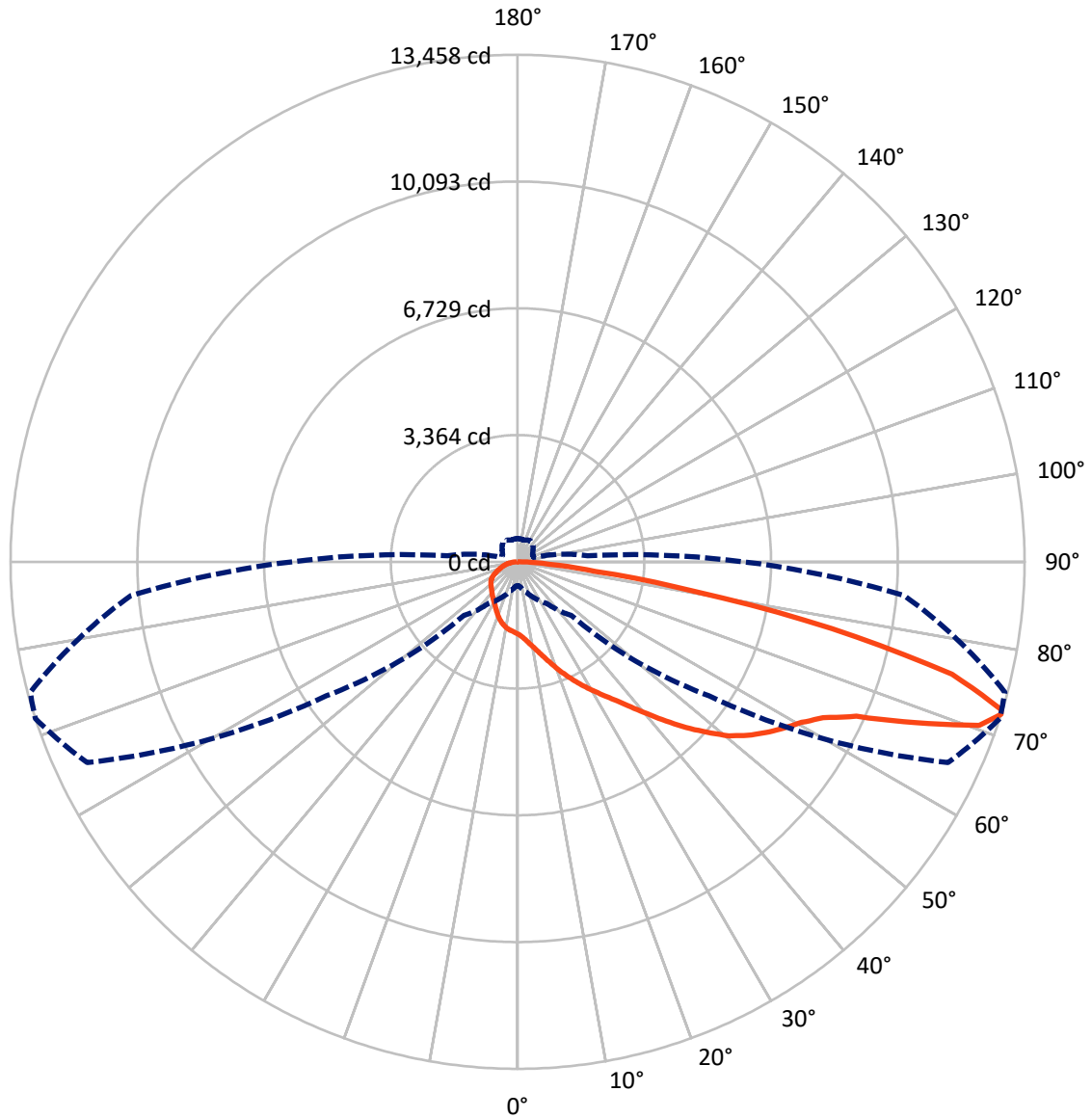
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2890.2	0.0	2890.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12689.8	0.0	12689.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15580.0	0.0	15580.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.1	1.2
10°-20°	620.7	4.0
20°-30°	1087.6	7.0
30°-40°	1612.5	10.4
40°-50°	2358.5	15.1
50°-60°	3245.2	20.8
60°-70°	3612.9	23.2
70°-80°	2448.1	15.7
80°-90°	402.4	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°	15580.0	100.0
0°-180°	15580.0	100.0

**Coefficient of Utilization**

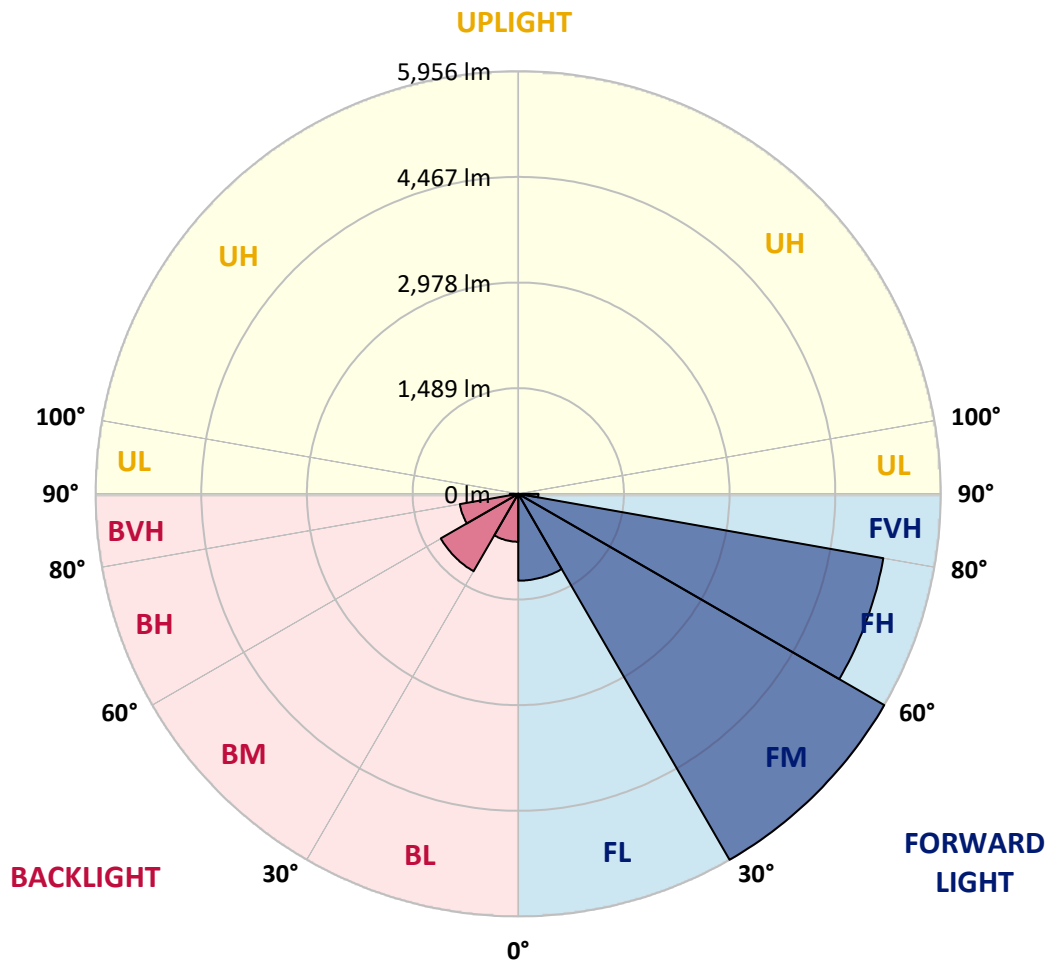


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.7	7.9			
FM (30°-60°)	5956.4	38.2			
FH (60°-80°)	5224.9	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°)	1259.9	8.1	B2/2500		
BH (60°-80°)	836.2	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°	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7
2.5°	2117.4	2114.2	2102.9	2102.9	2081.4	2063.2	2028.9	2005.8	1978.4	1968.8	1936.6
5°	2322.3	2323.4	2309.4	2299.8	2268.1	2229.5	2171.0	2117.9	2064.8	2043.3	1977.4
7.5°	2494.5	2492.4	2488.6	2480.6	2451.1	2411.4	2332.5	2253.6	2175.3	2143.1	2029.4
10°	2605.0	2609.8	2613.1	2616.8	2604.5	2576.0	2501.5	2405.5	2303.0	2259.0	2091.6
12.5°	2660.8	2669.4	2684.4	2710.2	2730.5	2727.3	2673.1	2571.2	2449.4	2394.2	2169.4
15°	2693.5	2704.8	2728.4	2774.5	2831.9	2864.7	2850.2	2757.9	2622.2	2554.1	2264.4
17.5°	2713.9	2723.0	2759.5	2821.2	2906.5	2993.4	3031.5	2954.2	2817.5	2739.7	2373.3
20°	2727.9	2734.8	2780.4	2852.9	2963.4	3101.8	3208.0	3188.7	3032.6	2931.7	2487.0
22.5°	2759.0	2764.9	2808.3	2881.3	3003.6	3182.2	3378.0	3407.0	3259.5	3145.2	2608.8
25°	2845.9	2845.9	2882.4	2933.3	3048.1	3252.0	3521.8	3650.0	3491.2	3358.2	2721.4
27.5°	3011.6	3010.0	3023.4	3041.2	3128.1	3322.8	3650.0	3864.6	3731.6	3586.2	2830.9
30°	3208.0	3218.7	3220.3	3211.7	3252.5	3411.3	3768.6	4091.0	3973.5	3816.9	2943.0
32.5°	3460.7	3467.6	3459.6	3431.2	3425.3	3536.8	3885.0	4328.1	4235.3	4057.7	3045.4
35°	3781.5	3768.0	3742.8	3684.9	3629.6	3704.7	4018.0	4565.2	4529.3	4349.0	3186.5
37.5°	4125.3	4125.9	4094.7	3963.3	3887.1	3919.3	4201.5	4834.0	4884.9	4695.6	3367.3
40°	4401.1	4415.5	4434.9	4262.1	4163.4	4207.9	4434.9	5145.7	5305.5	5106.5	3602.8
42.5°	4593.6	4610.3	4665.0	4556.6	4454.2	4536.8	4709.5	5478.3	5777.6	5580.7	3878.6
45°	4797.5	4806.6	4845.2	4798.6	4733.1	4919.3	5019.1	5822.7	6277.0	6086.1	4187.0
47.5°	5012.1	5021.7	5061.4	5030.3	4996.0	5276.6	5342.0	6147.2	6755.6	6641.3	4516.4
50°	5277.1	5283.5	5321.1	5264.7	5275.5	5545.9	5630.6	6444.9	7257.1	7140.2	4846.9
52.5°	5638.7	5640.3	5692.3	5641.3	5590.9	5743.3	5879.0	6725.5	7650.4	7595.1	5177.3
55°	5921.9	5939.1	6109.7	6098.9	6070.0	5922.4	6086.6	6992.7	8001.2	8027.5	5528.1
57.5°	5741.1	5808.2	6153.7	6397.2	6634.3	6368.2	6367.2	7293.6	8327.4	8451.8	5913.9
60°	5028.2	5119.4	5628.5	6168.7	6910.6	7143.9	6949.7	7661.1	8656.7	8872.4	6397.2
62.5°	3591.0	3741.2	4431.1	5293.7	6531.9	7657.9	8135.3	8244.2	9104.7	9359.5	7025.4
65°	1815.4	1929.1	2507.4	3546.5	5218.6	7322.0	9423.9	9521.0	9883.1	10109.5	7992.6
67.5°	1102.9	1145.9	1428.0	1972.5	3199.4	5703.6	9844.4	11649.1	11389.4	11509.6	9371.8
70°	812.7	844.4	1020.3	1310.0	1840.0	3346.9	8553.7	13167.8	12997.2	12983.8	10391.1
72°	633.0	656.1	811.7	1058.4	1345.4	2007.9	6199.8	12607.2	13457.5	13389.9	10297.8
72.5°	600.3	620.7	762.3	996.2	1271.4	1820.2	5574.3	12229.0	13424.2	13393.6	10177.0
75°	472.6	487.1	564.3	770.3	995.1	1032.7	3054.6	9477.0	11908.7	12403.9	9153.5
77.5°	391.1	393.2	434.0	560.6	775.7	730.1	1500.5	6575.3	8527.5	9072.0	6484.1
80°	318.7	321.3	340.6	393.2	586.9	540.2	712.4	3780.9	4774.4	4780.3	3083.5
82.5°	253.7	254.3	275.7	287.5	421.7	386.2	408.2	1775.1	2086.3	2006.9	1108.3
85°	178.6	174.9	269.3	236.0	275.7	247.8	225.3	702.8	862.6	825.1	347.1
87.5°	59.5	61.7	119.6	152.9	160.9	140.6	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°	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7	1916.7
2.5°	1926.4	1909.2	1884.0	1856.1	1834.1	1811.6	1795.0	1786.4	1776.7	1768.7	1778.3
5°	1946.8	1914.6	1861.0	1808.4	1769.8	1735.4	1710.7	1697.9	1686.1	1678.0	1679.1
7.5°	1980.0	1928.0	1837.9	1761.2	1707.5	1670.5	1645.3	1636.7	1629.2	1627.1	1629.7
10°	2015.5	1938.7	1807.3	1705.4	1644.2	1613.7	1602.4	1608.3	1613.7	1618.5	1623.8
12.5°	2055.7	1948.4	1762.8	1639.9	1587.9	1576.1	1587.4	1613.1	1631.9	1643.2	1650.1
15°	2108.3	1957.0	1711.3	1574.5	1539.6	1553.0	1591.1	1635.6	1668.4	1689.3	1692.5
17.5°	2156.5	1956.4	1645.3	1508.5	1500.5	1539.6	1597.0	1659.8	1703.8	1733.3	1739.2
20°	2206.4	1942.0	1568.6	1444.1	1460.8	1525.1	1599.7	1675.3	1728.5	1762.8	1770.8
22.5°	2253.1	1916.7	1484.4	1385.7	1427.5	1505.8	1589.5	1666.2	1719.3	1747.2	1755.8
25°	2284.8	1872.8	1399.1	1336.3	1398.0	1482.2	1556.3	1617.9	1657.6	1671.6	1673.7
27.5°	2300.8	1815.4	1318.6	1293.4	1367.4	1443.6	1494.6	1525.1	1536.4	1535.3	1533.2
30°	2303.0	1739.7	1249.4	1258.5	1332.0	1386.7	1410.9	1405.0	1390.5	1365.8	1368.0
32.5°	2296.0	1654.4	1191.5	1225.3	1287.0	1317.5	1318.6	1290.2	1251.5	1212.4	1201.7
35°	2298.2	1570.7	1140.5	1187.7	1232.2	1245.6	1233.3	1191.5	1138.9	1088.5	1077.7
37.5°	2321.8	1497.8	1096.5	1144.3	1171.6	1174.8	1157.1	1113.1	1074.5	1025.2	1020.9
40°	2378.1	1445.7	1054.7	1095.4	1111.0	1112.6	1087.4	1056.3	1059.5	1033.2	1032.7
42.5°	2479.5	1423.2	1017.7	1044.5	1054.1	1057.3	1038.0	1018.2	1046.1	1028.9	1023.0
45°	2610.4	1428.6	986.5	994.6	1012.3	1027.3	1015.5	991.4	1002.1	927.5	902.9
47.5°	2761.7	1462.9	961.9	951.7	982.2	1010.7	992.4	956.0	917.9	843.8	829.9
50°	2938.7	1516.0	939.3	909.3	949.5	988.1	969.9	917.9	860.5	824.5	819.7
52.5°	3123.2	1580.9	916.8	862.6	908.2	971.0	961.9	909.3	838.5	803.1	796.6
55°	3332.4	1646.4	888.4	808.4	863.7	962.9	958.1	878.2	821.8	802.0	797.2
57.5°	3592.6	1720.9	850.8	752.1	821.8	934.0	918.9	859.4	804.7	789.7	788.0
60°	3931.7	1830.9	796.6	692.0	770.9	889.4	886.2	832.0	777.3	766.6	764.4
62.5°	4440.2	2012.8	722.1	631.9	714.0	813.8	843.3	795.0	748.4	747.8	748.9
65°	5228.8	2286.4	641.1	579.4	656.6	750.0	793.4	756.9	718.8	729.6	731.2
67.5°	6142.9	2513.3	561.7	527.9	598.1	689.3	748.4	718.8	679.7	707.6	708.1
70°	6447.1	2310.5	491.9	476.9	537.5	630.9	699.5	677.0	637.3	665.2	662.5
72°	5999.7	1865.2	446.9	438.3	491.9	582.6	656.1	637.8	598.7	617.5	610.5
72.5°	5858.6	1778.3	435.6	428.6	479.6	570.2	644.8	628.2	589.0	605.1	598.7
75°	5226.1	1544.4	374.4	376.1	418.4	510.2	581.5	576.2	535.9	537.5	535.4
77.5°	3790.6	1132.5	315.4	326.2	356.2	448.5	517.7	514.5	470.5	462.4	460.8
80°	1759.0	577.8	257.0	261.8	292.9	375.0	441.5	437.2	401.8	391.6	385.7
82.5°	602.4	274.7	193.1	196.3	226.9	302.0	383.0	380.3	350.8	331.0	318.7
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)