

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: P266700

Luminaire Tested: **GAN-AF-02-LED-U-T2-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10383.1 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

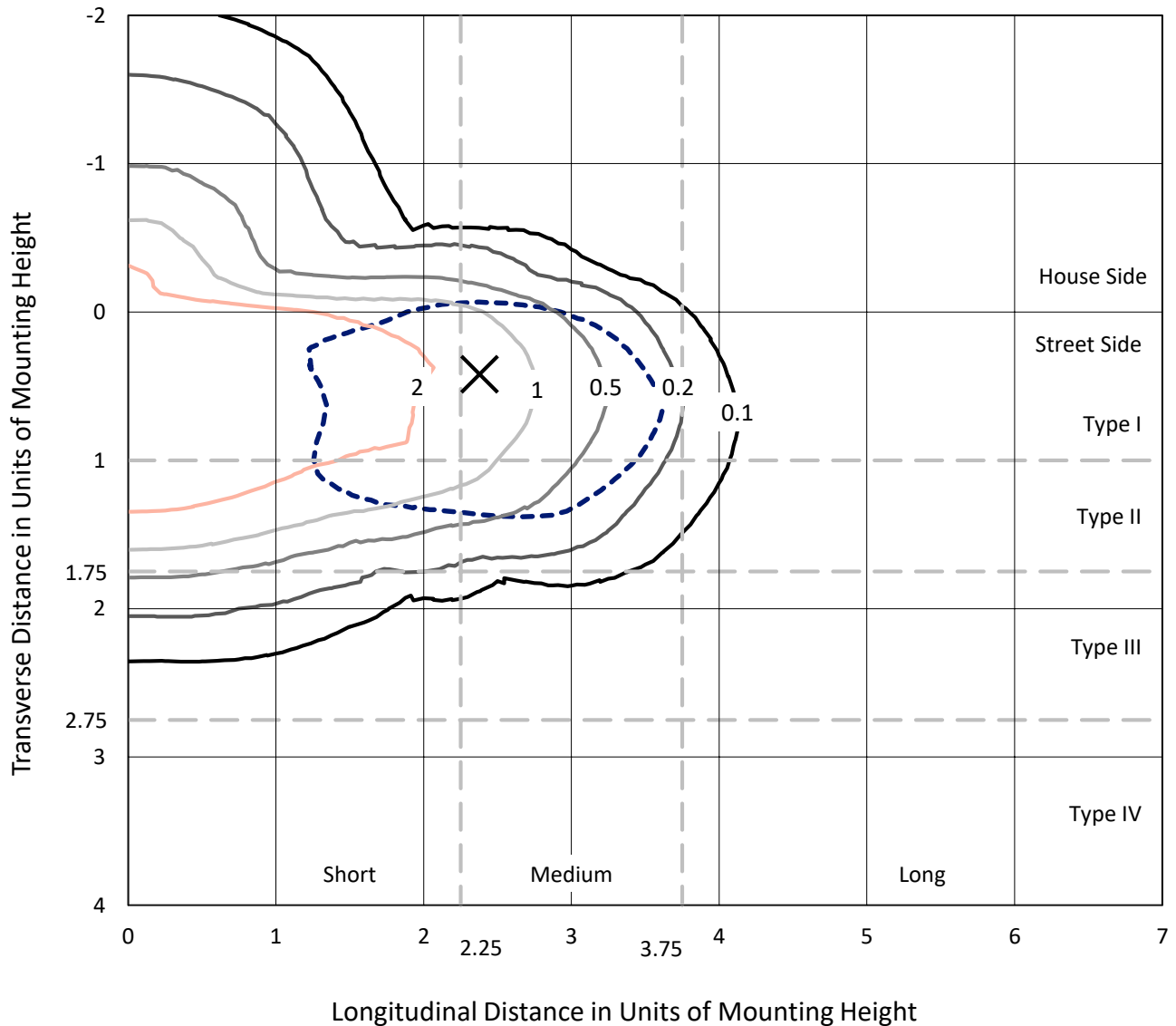
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

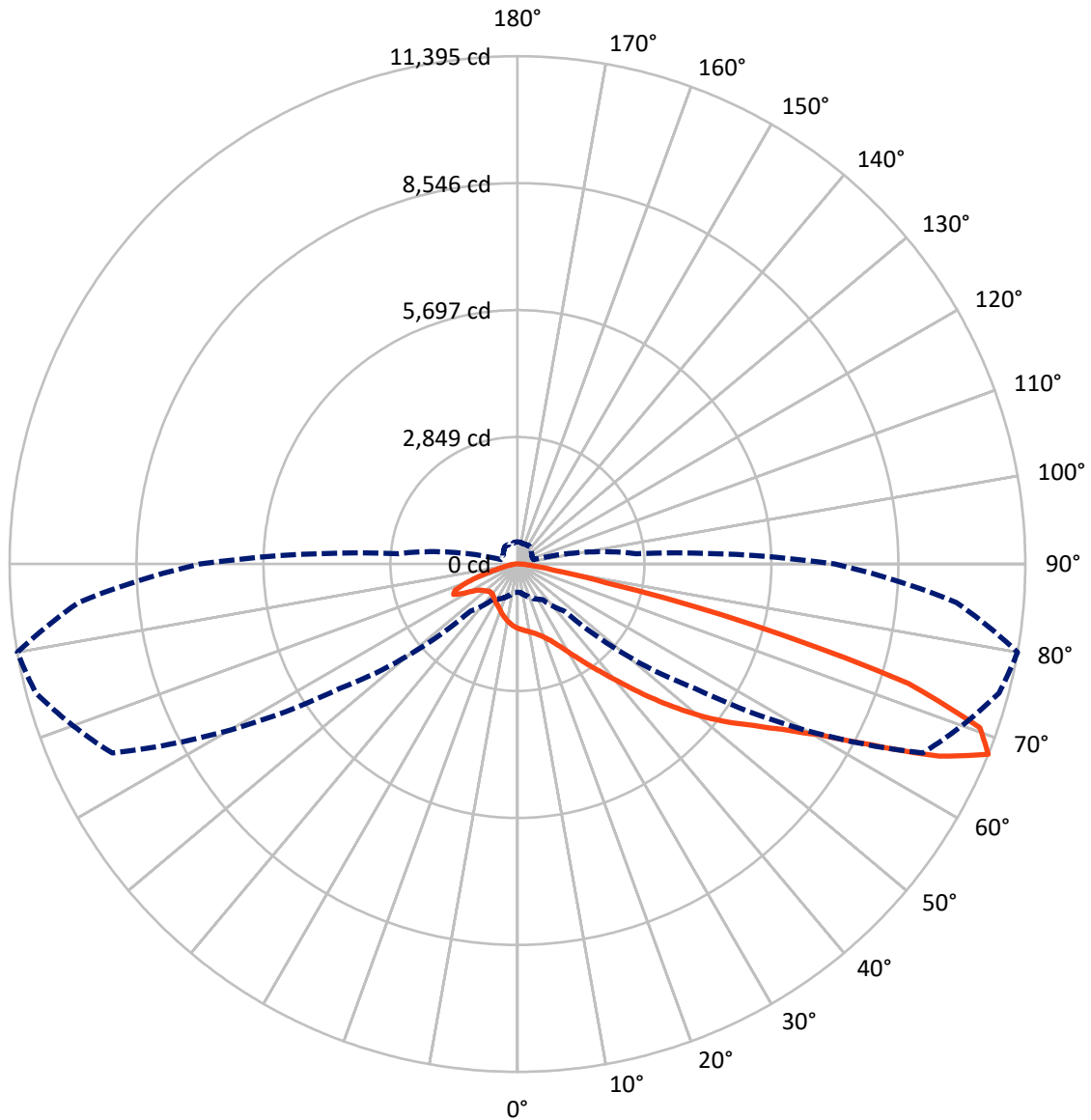
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1912.2	0.0	1912.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8470.9	0.0	8470.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	10383.1	0.0	10383.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	1.3
10°-20°	383.3	3.7
20°-30°	634.5	6.1
30°-40°	1037.8	10.0
40°-50°	1675.7	16.1
50°-60°	2419.2	23.3
60°-70°	2669.8	25.7
70°-80°	1230.6	11.9
80°-90°	199.1	1.9
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°	10383.1	100.0
0°-180°	10383.1	100.0

Coefficient of Utilization



REPORT NUMBER: P266700

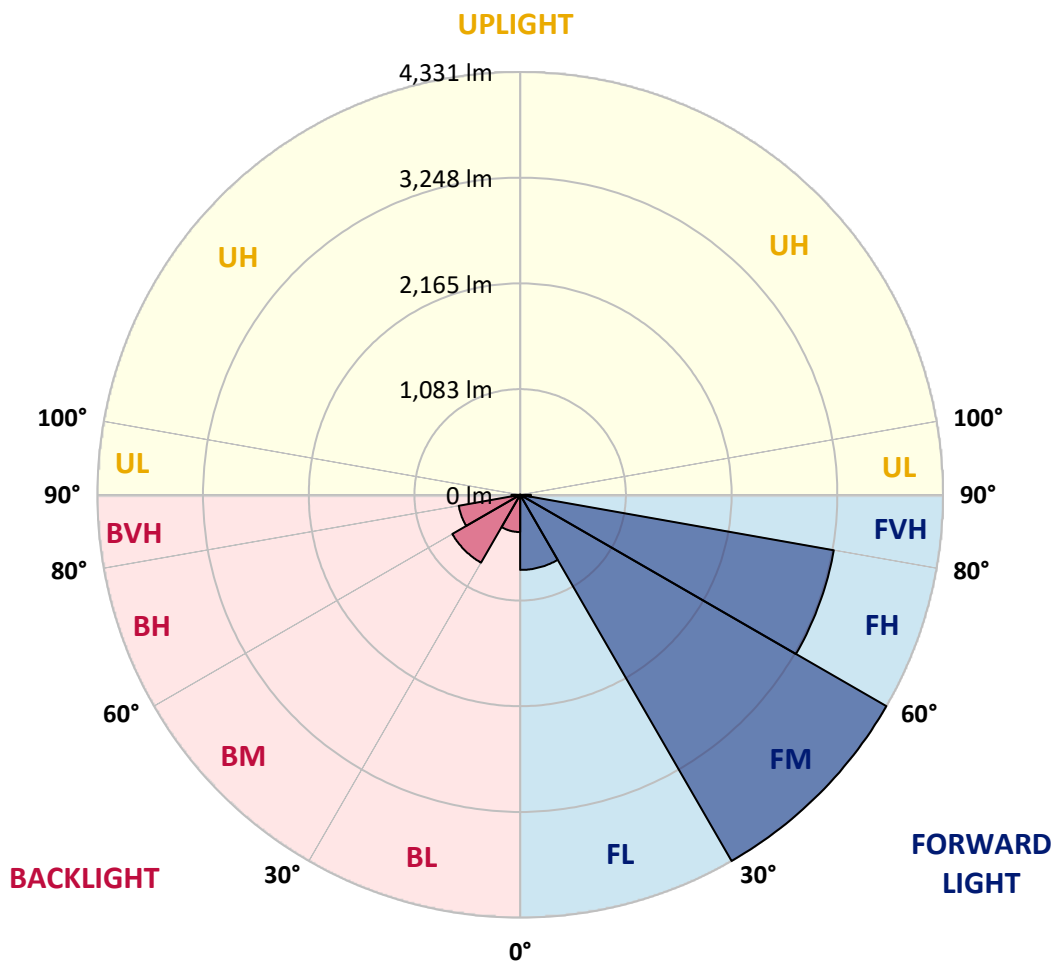
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.4	7.4			
FM	(30°-60°)	4330.5	41.7			
FH	(60°-80°)	3261.6	31.4			G2/5000
FVH	(80°-90°)	109.4	1.1			G2/225
BL	(0°-30°)	381.5	3.7	B1/500		
BM	(30°-60°)	802.3	7.7	B1/1000		
BH	(60°-80°)	638.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	89.6	0.9			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 II Medium





REPORT NUMBER: P266700
 CATALOG NUMBER: GAN-AF-02-LED-U-T2-7027-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5
2.5°	1578.0	1568.8	1570.2	1567.7	1560.0	1546.8	1532.5	1506.4	1479.2	1465.0	1453.7
5°	1709.8	1707.3	1703.7	1695.6	1676.1	1648.5	1614.3	1568.4	1518.7	1492.7	1467.7
7.5°	1808.5	1807.0	1802.4	1797.2	1778.4	1745.1	1693.5	1628.1	1556.0	1520.2	1481.3
10°	1816.7	1819.2	1822.8	1836.7	1839.2	1821.4	1768.7	1689.4	1594.9	1548.9	1499.2
12.5°	1747.2	1752.9	1766.5	1801.9	1839.2	1861.2	1834.1	1753.9	1640.3	1584.6	1521.8
15°	1655.1	1658.2	1675.1	1723.7	1790.6	1858.7	1884.1	1824.8	1699.1	1630.7	1555.4
17.5°	1615.8	1617.3	1629.0	1661.2	1723.7	1820.8	1912.3	1902.0	1771.2	1687.8	1596.8
20°	1595.8	1599.4	1616.3	1648.0	1687.3	1772.3	1916.4	1985.3	1857.1	1759.4	1649.0
22.5°	1652.6	1651.1	1657.3	1673.1	1706.3	1757.4	1913.3	2071.2	1966.5	1851.4	1717.0
25°	1785.0	1790.6	1779.9	1761.9	1772.7	1808.5	1929.6	2164.2	2103.4	1969.5	1806.0
27.5°	1973.7	1967.9	1952.1	1910.2	1888.2	1903.6	1983.8	2264.4	2273.7	2124.9	1923.5
30°	2161.7	2157.1	2141.7	2090.6	2045.7	2033.0	2089.2	2379.5	2476.5	2311.5	2067.7
32.5°	2357.1	2351.9	2337.6	2286.5	2232.3	2202.6	2238.9	2512.4	2715.8	2534.4	2237.4
35°	2597.8	2588.0	2557.8	2486.8	2433.7	2410.6	2427.5	2679.6	2991.9	2798.1	2443.4
37.5°	2824.2	2839.1	2808.3	2710.1	2641.1	2633.0	2651.9	2883.5	3289.4	3093.0	2680.1
40°	3051.6	3054.2	3026.6	2946.4	2875.4	2862.0	2909.6	3131.0	3640.6	3445.8	2967.8
42.5°	3286.8	3291.8	3245.3	3171.2	3119.2	3121.7	3175.9	3420.7	4043.4	3861.4	3299.0
45°	3565.5	3573.1	3522.0	3424.8	3377.3	3472.8	3450.4	3745.8	4485.0	4333.7	3679.4
47.5°	3856.8	3868.6	3829.7	3738.7	3679.4	3810.8	3724.9	4106.2	4960.4	4840.2	4097.0
50°	4015.8	4032.6	4070.4	4063.8	4050.9	4029.0	4031.1	4492.7	5450.6	5367.7	4526.4
52.5°	3930.4	3929.8	4067.9	4235.5	4414.5	4427.7	4404.2	4900.1	5908.6	5883.4	4930.7
55°	3539.9	3566.5	3775.4	4100.0	4588.7	4894.0	4963.4	5366.7	6358.5	6387.6	5341.2
57.5°	2889.6	2911.5	3193.7	3646.2	4353.6	5171.0	5758.9	6045.1	6861.4	6997.3	5887.6
60°	1959.8	1986.4	2285.4	2828.9	3720.8	5016.6	6515.9	7255.5	7463.6	7772.9	6654.4
62.5°	1151.6	1175.7	1419.5	1784.6	2619.7	4299.4	6848.0	8977.7	8420.0	8942.8	7823.9
65°	792.8	809.2	927.8	1110.8	1505.4	2895.7	6436.0	10166.6	9891.5	10392.5	9180.0
67.5°	637.9	635.9	730.0	854.6	969.2	1493.2	4866.7	10032.2	11185.9	11394.9	9884.0
70°	525.5	523.4	587.3	690.5	774.3	840.9	2650.9	8465.9	10922.1	11006.9	9235.7
72.5°	439.6	441.6	482.5	559.3	635.5	633.3	1164.9	5955.7	8592.2	9179.1	7362.4
75°	371.1	372.2	399.2	453.5	515.7	510.1	631.8	3226.5	4994.7	5403.0	4081.2
77.5°	315.9	316.9	334.3	364.4	408.9	406.9	461.1	1394.0	2083.4	2057.9	1396.0
80°	281.7	281.7	289.9	295.5	319.9	310.9	342.0	669.6	880.8	813.2	557.2
82.5°	220.9	221.8	271.9	269.9	252.1	240.2	240.2	394.6	466.7	431.5	326.2
85°	124.2	123.6	175.3	211.6	221.8	169.2	167.7	220.9	254.0	223.9	157.9
87.5°	53.2	54.2	81.2	94.1	125.8	105.3	103.8	113.9	129.4	112.0	73.1
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: P266700

CATALOG NUMBER: GAN-AF-02-LED-U-T2-7027-ADJ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5
2.5°	1443.0	1429.7	1400.5	1364.3	1331.6	1310.1	1290.7	1262.6	1264.2	1244.7	1230.4
5°	1442.0	1414.4	1346.9	1266.7	1189.4	1133.8	1091.9	1054.0	1044.8	1026.9	1016.3
7.5°	1443.0	1398.0	1284.5	1156.3	1060.7	990.1	954.4	934.3	929.8	923.6	924.1
10°	1446.6	1383.2	1216.0	1053.1	952.8	906.3	897.5	903.8	910.9	912.9	913.4
12.5°	1454.7	1369.9	1140.9	960.9	885.3	871.0	885.9	906.7	920.7	927.3	926.7
15°	1473.2	1359.8	1068.9	889.0	848.0	855.6	883.4	912.9	932.9	942.1	942.6
17.5°	1493.2	1344.9	994.8	833.6	820.4	839.8	874.1	908.8	933.3	943.6	945.6
20°	1519.3	1326.4	917.0	792.3	794.3	816.3	848.4	883.4	910.4	919.1	923.2
22.5°	1553.3	1306.6	849.1	758.6	764.6	781.5	806.6	836.9	860.2	864.3	867.9
25°	1599.4	1285.0	794.9	727.8	730.4	740.2	757.0	775.0	791.2	786.6	790.2
27.5°	1661.2	1266.7	754.4	699.8	695.2	697.3	705.9	711.5	720.3	707.4	709.0
30°	1733.9	1246.8	723.2	675.3	662.5	658.8	661.0	663.9	670.7	653.2	650.7
32.5°	1818.2	1222.8	694.2	653.7	635.9	628.8	629.7	637.9	663.5	652.8	647.0
35°	1916.4	1195.6	663.5	630.3	618.0	607.8	606.7	632.2	708.5	701.8	696.7
37.5°	2031.3	1168.5	632.9	603.8	604.6	593.5	589.8	619.0	717.1	691.1	687.6
40°	2177.6	1154.2	606.7	575.5	588.4	586.9	579.6	594.5	660.0	612.4	606.3
42.5°	2358.5	1156.3	587.3	545.5	568.9	585.2	574.0	574.6	598.0	562.2	556.7
45°	2581.9	1180.4	573.6	521.3	547.0	583.8	572.0	563.9	565.8	547.0	543.8
47.5°	2842.5	1229.9	563.9	501.4	526.0	578.1	571.5	560.7	556.1	545.9	543.4
50°	3132.4	1302.0	556.7	482.5	507.1	568.9	572.0	557.7	552.5	548.4	547.0
52.5°	3417.2	1384.3	545.9	466.2	492.2	557.7	573.6	554.7	549.0	545.9	544.5
55°	3734.7	1487.0	529.6	452.3	480.0	543.4	573.6	550.0	543.8	544.5	543.8
57.5°	4163.5	1653.2	510.1	440.6	465.1	526.0	563.9	544.9	537.2	537.7	538.3
60°	4833.6	1946.0	486.6	428.9	446.7	505.6	550.5	533.7	526.0	528.1	528.6
62.5°	5819.1	2375.8	456.0	411.6	427.4	483.6	532.2	519.3	511.7	516.7	516.7
65°	6843.5	2755.2	418.2	389.5	406.9	459.6	509.1	501.4	493.8	505.6	505.0
67.5°	7119.0	2670.3	380.3	365.5	386.5	433.0	481.5	477.4	473.3	493.8	492.8
70°	6324.2	2143.8	345.6	340.9	364.0	404.3	451.8	451.8	449.3	464.7	461.1
72.5°	4818.2	1520.2	312.3	314.9	338.4	373.2	419.7	423.2	419.1	426.9	423.8
75°	2579.4	870.0	279.2	286.3	306.7	341.4	383.8	387.4	385.0	384.5	385.9
77.5°	857.3	425.3	244.2	255.6	273.4	308.7	346.6	352.1	346.0	344.9	344.5
80°	381.8	267.3	206.0	220.9	236.7	271.5	307.2	311.8	305.2	314.3	302.5
82.5°	245.3	175.9	165.1	181.5	196.8	234.1	267.9	268.9	262.8	305.2	260.1
85°	119.0	108.9	124.2	139.1	152.4	184.1	221.8	222.4	207.0	188.6	181.9
87.5°	59.3	63.4	82.9	96.1	102.8	126.2	161.5	158.6	151.9	138.0	127.3
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)