

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: P317988

Luminaire Tested: **GAN-SA4A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317988
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-SA4A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15429 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

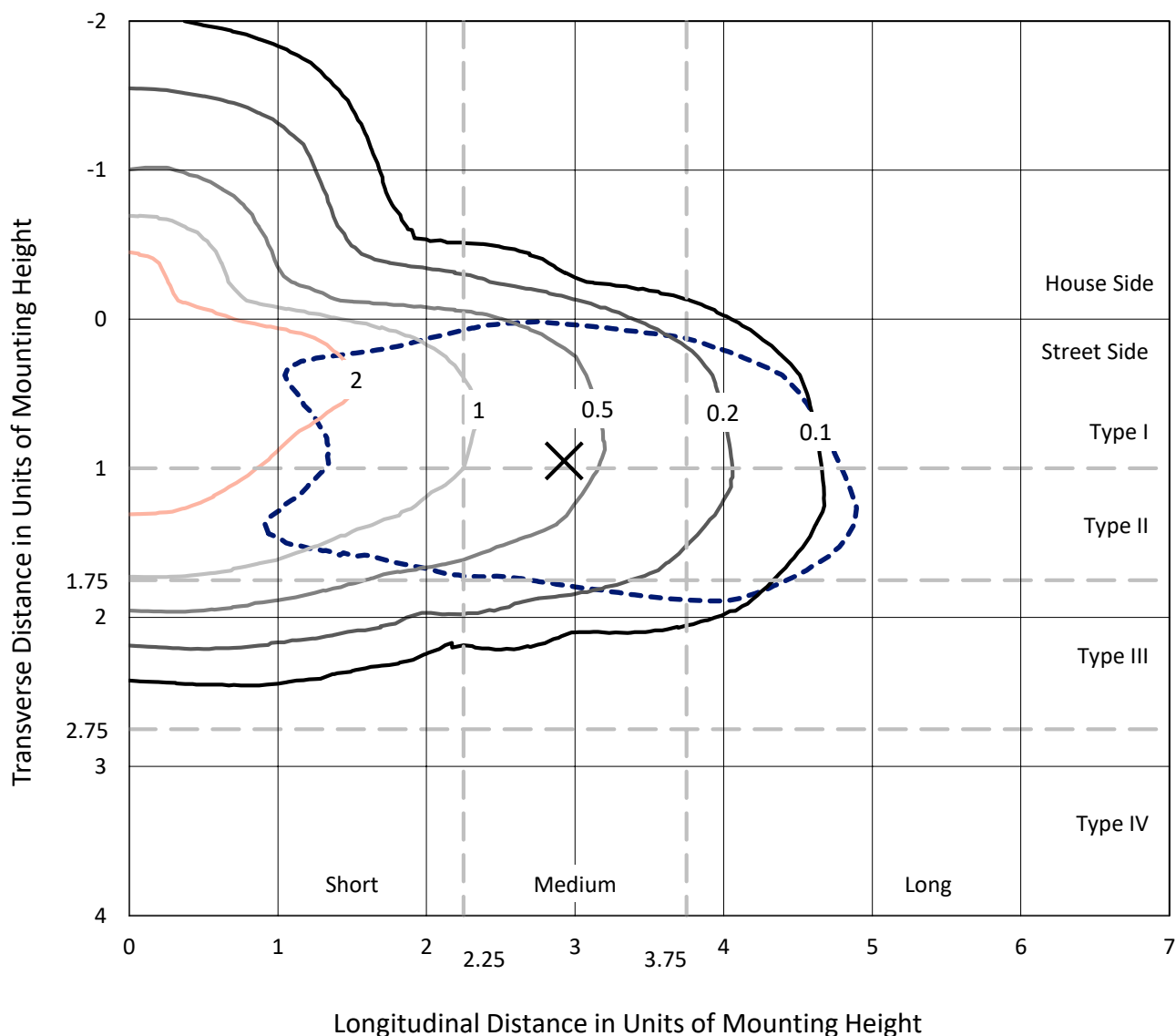
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317988
 CATALOG NUMBER: GAN-SA4A-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

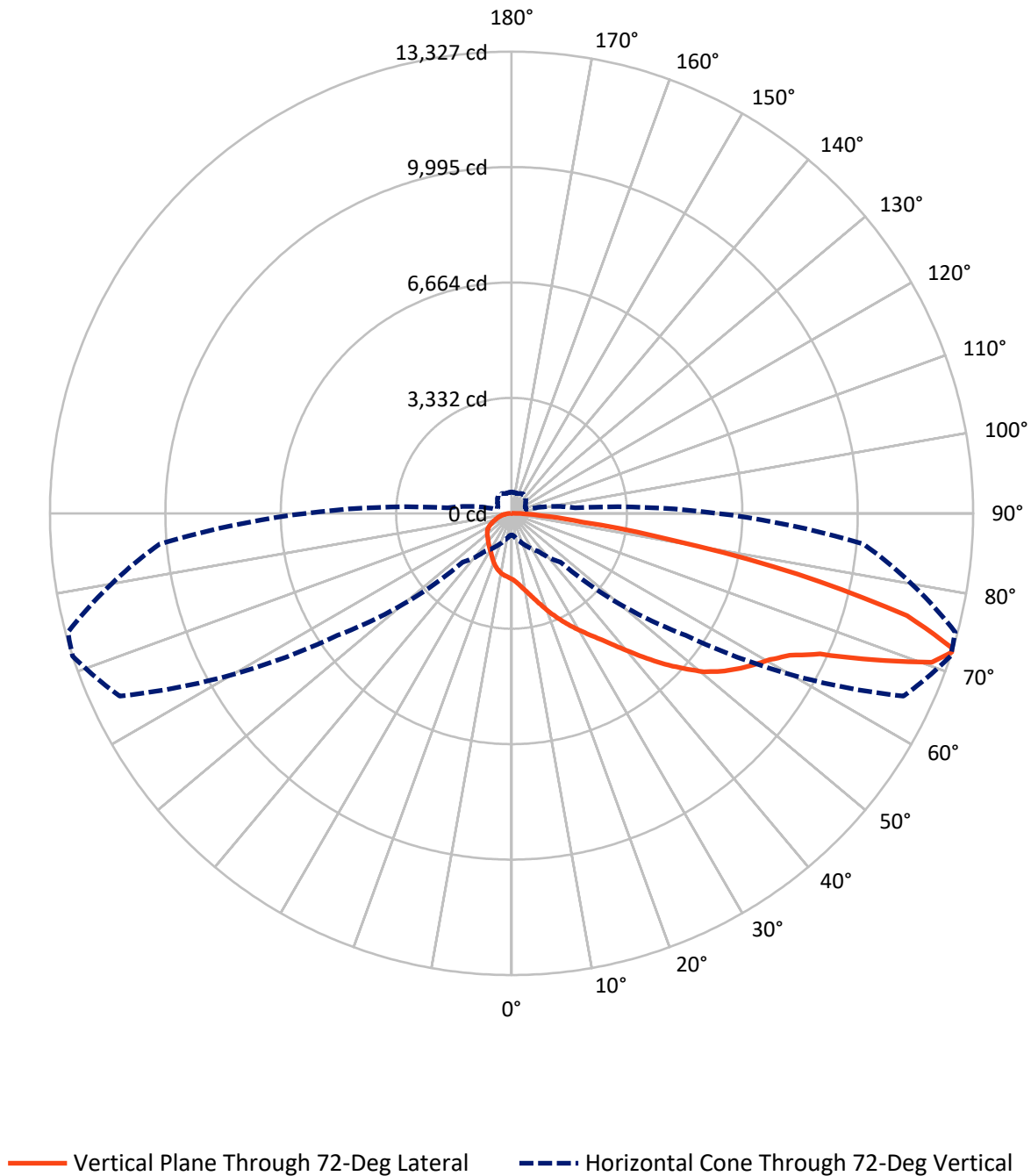
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P317988
CATALOG NUMBER: GAN-SA4A-727-U-T2

Luminous Intensity Polar Plot



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CATALOG NUMBER: GAN-SA4A-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2862.2	0.0	2862.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12566.8	0.0	12566.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	15429.0	0.0	15429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	1.2
10°-20°	614.6	4.0
20°-30°	1077.0	7.0
30°-40°	1596.9	10.4
40°-50°	2335.6	15.1
50°-60°	3213.8	20.8
60°-70°	3577.9	23.2
70°-80°	2424.4	15.7
80°-90°	398.5	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°	15429.0	100.0
0°-180°	15429.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317988

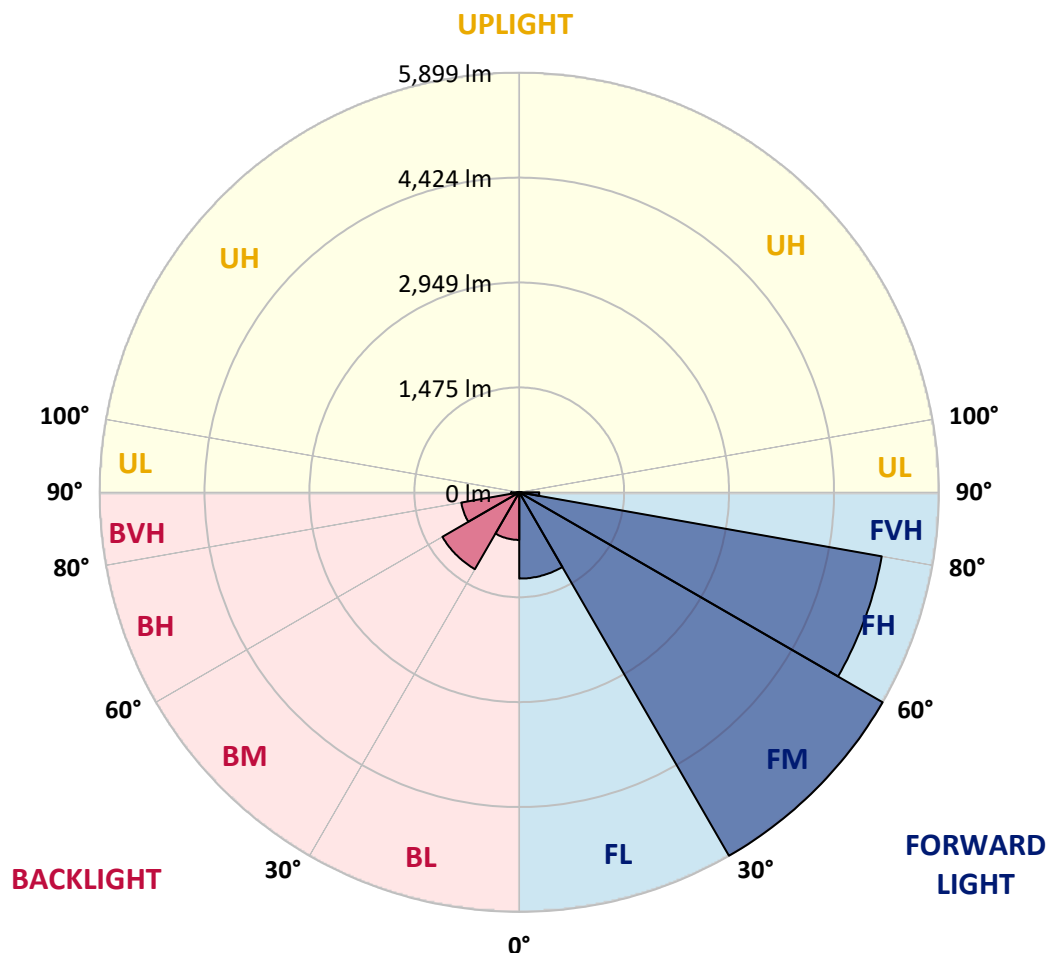
CATALOG NUMBER: GAN-SA4A-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.8	7.9			
FM	(30°-60°)	5898.7	38.2			
FH	(60°-80°)	5174.2	33.5			G3/7500
FVH	(80°-90°)	281.1	1.8			G3/500
BL	(0°-30°)	669.1	4.3	B2/1000		
BM	(30°-60°)	1247.6	8.1	B2/2500		
BH	(60°-80°)	828.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	117.4	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





REPORT NUMBER: P317988

CATALOG NUMBER: GAN-SA4A-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	2096.9	2093.7	2082.5	2082.5	2061.3	2043.2	2009.2	1986.4	1959.3	1949.7	1917.8
5°	2299.8	2300.9	2287.0	2277.5	2246.1	2207.9	2150.0	2097.4	2044.8	2023.5	1958.2
7.5°	2470.3	2468.2	2464.5	2456.5	2427.3	2388.0	2309.9	2231.8	2154.2	2122.4	2009.7
10°	2579.8	2584.5	2587.7	2591.5	2579.2	2551.1	2477.2	2382.1	2280.7	2237.1	2071.4
12.5°	2635.0	2643.5	2658.4	2683.9	2704.1	2700.9	2647.2	2546.3	2425.7	2371.0	2148.4
15°	2667.4	2678.6	2702.0	2747.6	2804.5	2836.9	2822.6	2731.2	2596.8	2529.3	2242.4
17.5°	2687.6	2696.6	2732.8	2793.9	2878.3	2964.4	3002.1	2925.6	2790.1	2713.1	2350.3
20°	2701.4	2708.3	2753.5	2825.2	2934.6	3071.7	3176.9	3157.8	3003.2	2903.3	2462.9
22.5°	2732.2	2738.1	2781.1	2853.4	2974.5	3151.4	3345.3	3374.0	3227.9	3114.7	2583.5
25°	2818.3	2818.3	2854.4	2904.9	3018.6	3220.5	3487.7	3614.7	3457.4	3325.6	2695.1
27.5°	2982.5	2980.9	2994.1	3011.7	3097.7	3290.6	3614.7	3827.2	3695.4	3551.4	2803.4
30°	3176.9	3187.5	3189.1	3180.6	3221.0	3378.2	3732.1	4051.3	3935.0	3779.9	2914.5
32.5°	3427.1	3434.0	3426.1	3397.9	3392.1	3502.6	3847.3	4286.2	4194.2	4018.4	3015.9
35°	3744.8	3731.5	3706.6	3649.2	3594.5	3668.8	3979.1	4521.0	4485.4	4306.9	3155.6
37.5°	4085.3	4085.9	4055.1	3924.9	3849.5	3881.3	4160.8	4787.1	4837.6	4650.1	3334.7
40°	4358.4	4372.7	4391.9	4220.8	4123.1	4167.2	4391.9	5095.8	5254.1	5057.0	3567.9
42.5°	4549.1	4565.6	4619.8	4512.5	4411.0	4492.8	4663.9	5425.2	5721.6	5526.6	3841.0
45°	4751.0	4760.0	4798.3	4752.1	4687.3	4871.6	4970.4	5766.2	6216.2	6027.1	4146.4
47.5°	4963.5	4973.1	5012.4	4981.6	4947.6	5225.4	5290.2	6087.6	6690.1	6576.9	4472.6
50°	5225.9	5232.3	5269.5	5213.7	5224.3	5492.1	5576.0	6382.5	7186.8	7071.0	4799.9
52.5°	5584.0	5585.6	5637.1	5586.7	5536.7	5687.6	5822.0	6660.3	7576.2	7521.5	5127.1
55°	5864.5	5881.5	6050.4	6039.8	6011.1	5865.0	6027.6	6924.9	7923.6	7949.7	5474.6
57.5°	5685.5	5751.9	6094.0	6335.2	6570.0	6306.5	6305.5	7222.9	8246.7	8369.9	5856.5
60°	4979.4	5069.8	5573.9	6108.9	6843.6	7074.7	6882.4	7586.8	8572.8	8786.4	6335.2
62.5°	3556.2	3705.0	4388.2	5242.4	6468.5	7583.6	8056.5	8164.3	9016.4	9268.8	6957.3
65°	1797.8	1910.4	2483.1	3512.1	5168.0	7251.1	9332.5	9428.7	9787.3	10011.5	7915.1
67.5°	1092.3	1134.8	1414.2	1953.4	3168.4	5648.3	9749.0	11536.2	11279.0	11398.0	9281.0
70°	804.8	836.2	1010.4	1297.3	1822.2	3314.5	8470.8	13040.2	12871.2	12857.9	10290.4
72°	626.9	649.7	803.8	1048.2	1332.4	1988.5	6139.7	12485.0	13327.0	13260.1	10197.9
72.5°	594.5	614.7	754.9	986.5	1259.1	1802.5	5520.3	12110.5	13294.1	13263.8	10078.4
75°	468.0	482.4	558.9	762.9	985.5	1022.7	3025.0	9385.1	11793.3	12283.6	9064.8
77.5°	387.3	389.4	429.8	555.2	768.2	723.0	1485.9	6511.6	8444.8	8984.0	6421.3
80°	315.6	318.2	337.3	389.4	581.2	535.0	705.5	3744.3	4728.2	4734.0	3053.6
82.5°	251.3	251.8	273.1	284.8	417.6	382.5	404.3	1757.9	2066.0	1987.4	1097.6
85°	176.9	173.2	266.7	233.8	273.1	245.4	223.1	695.9	854.3	817.1	343.7
87.5°	59.0	61.1	118.5	151.4	159.4	139.2	99.3	266.7	322.5	319.8	108.9
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: P317988

CATALOG NUMBER: GAN-SA4A-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1907.7	1890.7	1865.8	1838.1	1816.4	1794.0	1777.6	1769.1	1759.5	1751.5	1761.1
5°	1927.9	1896.0	1842.9	1790.9	1752.6	1718.6	1694.2	1681.4	1669.7	1661.8	1662.8
7.5°	1960.9	1909.3	1820.1	1744.1	1691.0	1654.3	1629.4	1620.9	1613.4	1611.3	1613.9
10°	1995.9	1920.0	1789.8	1688.9	1628.3	1598.0	1586.9	1592.7	1598.0	1602.8	1608.1
12.5°	2035.8	1929.5	1745.7	1624.0	1572.5	1560.8	1572.0	1597.5	1616.1	1627.2	1634.1
15°	2087.8	1938.0	1694.7	1559.2	1524.7	1538.0	1575.7	1619.8	1652.2	1672.9	1676.1
17.5°	2135.6	1937.5	1629.4	1493.9	1485.9	1524.7	1581.5	1643.7	1687.3	1716.5	1722.3
20°	2185.0	1923.1	1553.4	1430.1	1446.6	1510.4	1584.2	1659.1	1711.7	1745.7	1753.7
22.5°	2231.3	1898.2	1470.0	1372.2	1413.7	1491.2	1574.1	1650.1	1702.7	1730.3	1738.8
25°	2262.6	1854.6	1385.5	1323.4	1384.4	1467.9	1541.2	1602.3	1641.6	1655.4	1657.5
27.5°	2278.5	1797.8	1305.8	1280.9	1354.2	1429.6	1480.1	1510.4	1521.5	1520.4	1518.3
30°	2280.7	1722.9	1237.3	1246.3	1319.1	1373.3	1397.2	1391.4	1377.0	1352.6	1354.7
32.5°	2273.8	1638.4	1179.9	1213.4	1274.5	1304.8	1305.8	1277.7	1239.4	1200.6	1190.0
35°	2275.9	1555.5	1129.4	1176.2	1220.3	1233.6	1221.4	1179.9	1127.9	1077.9	1067.3
37.5°	2299.3	1483.3	1085.9	1133.2	1160.3	1163.4	1145.9	1102.4	1064.1	1015.2	1011.0
40°	2355.0	1431.7	1044.4	1084.8	1100.2	1101.8	1076.9	1046.0	1049.2	1023.2	1022.7
42.5°	2455.5	1409.4	1007.8	1034.4	1043.9	1047.1	1028.0	1008.3	1035.9	1018.9	1013.1
45°	2585.1	1414.7	977.0	984.9	1002.5	1017.4	1005.7	981.8	992.4	918.5	894.1
47.5°	2734.9	1448.7	952.5	942.4	972.7	1000.9	982.8	946.7	909.0	835.7	821.8
50°	2910.2	1501.3	930.2	900.5	940.3	978.6	960.5	909.0	852.1	816.5	811.8
52.5°	3093.0	1565.6	907.9	854.3	899.4	961.6	952.5	900.5	830.3	795.3	788.9
55°	3300.1	1630.4	879.8	800.6	855.3	953.6	948.8	869.7	813.9	794.2	789.4
57.5°	3557.8	1704.3	842.6	744.8	813.9	924.9	910.0	851.1	796.9	782.0	780.4
60°	3893.6	1813.2	788.9	685.3	763.4	880.8	877.6	824.0	769.8	759.2	757.0
62.5°	4397.2	1993.3	715.1	625.8	707.1	805.9	835.1	787.3	741.1	740.6	741.6
65°	5178.1	2264.2	634.8	573.8	650.3	742.7	785.7	749.6	711.9	722.5	724.1
67.5°	6083.4	2488.9	556.2	522.8	592.3	682.7	741.1	711.9	673.1	700.7	701.3
70°	6384.6	2288.1	487.2	472.3	532.3	624.8	692.8	670.4	631.1	658.8	656.1
72°	5941.5	1847.2	442.5	434.0	487.2	576.9	649.7	631.7	592.9	611.5	604.6
72.5°	5801.8	1761.1	431.4	424.5	474.9	564.7	638.6	622.1	583.3	599.3	592.9
75°	5175.5	1529.5	370.8	372.4	414.4	505.2	575.9	570.6	530.7	532.3	530.2
77.5°	3753.8	1121.5	312.4	323.0	352.8	444.1	512.7	509.5	465.9	457.9	456.3
80°	1742.0	572.2	254.5	259.3	290.1	371.3	437.2	433.0	397.9	387.8	382.0
82.5°	596.6	272.0	191.3	194.4	224.7	299.1	379.3	376.7	347.4	327.8	315.6
85°	213.0	135.5	133.9	130.7	160.4	235.3	330.4	316.1	273.1	232.7	231.6
87.5°	69.1	57.9	69.1	68.5	93.5	159.4	240.1	204.5	198.2	164.7	161.5
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)