

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: P322359

Luminaire Tested: **GAN-SA5B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15301 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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

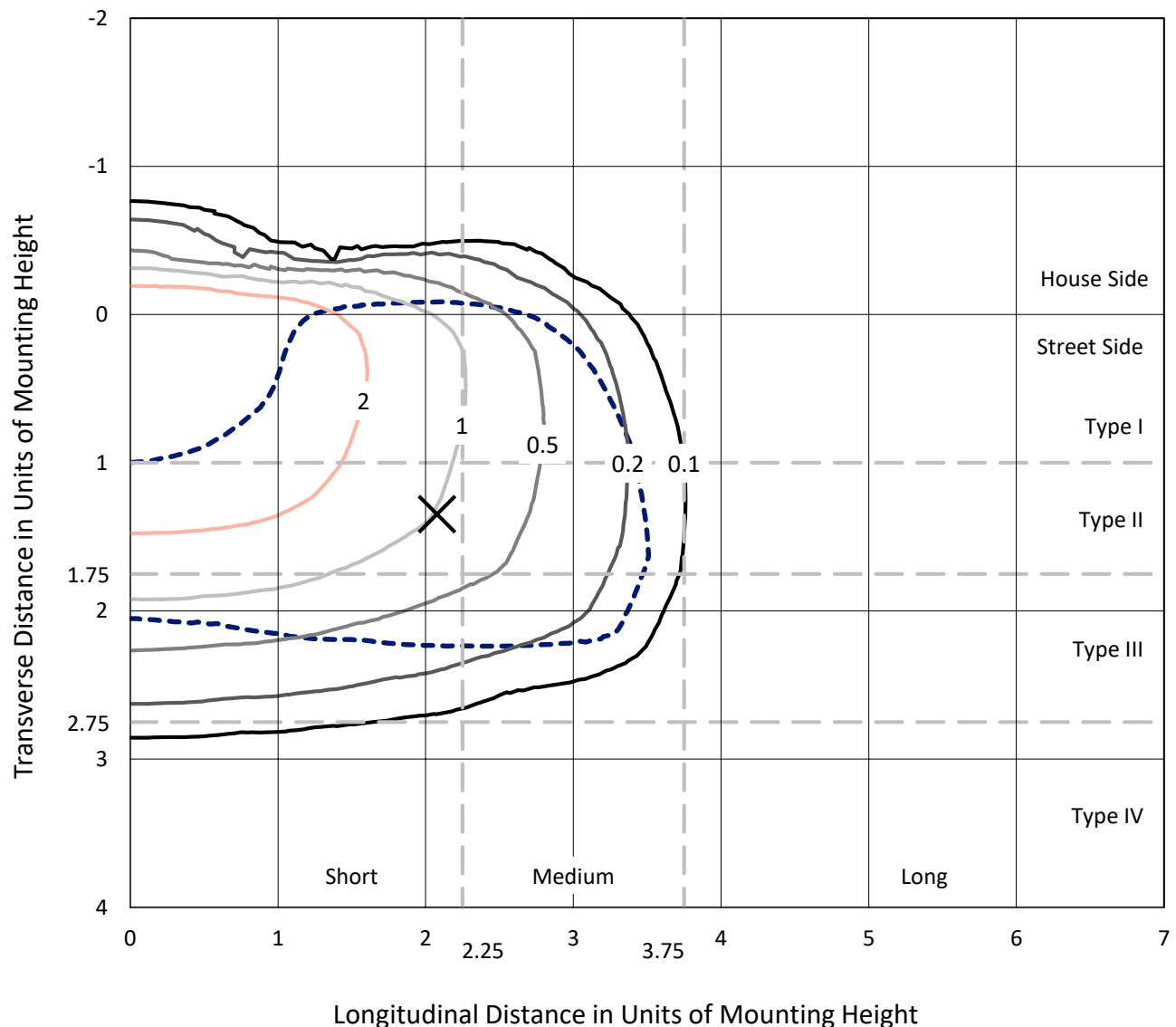


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Iso-Footcandle Lines of Horizontal Illumination

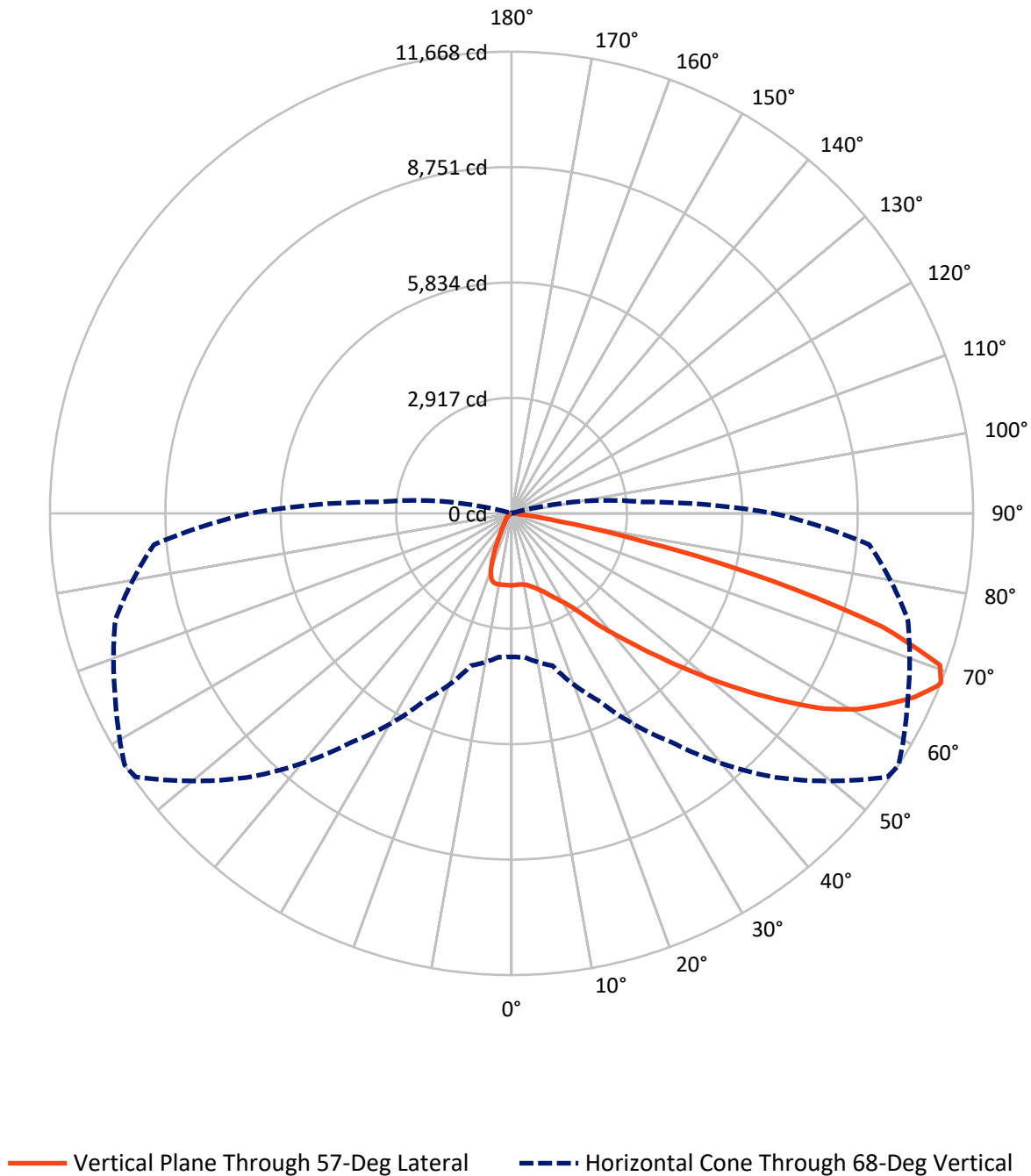
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1677.8	0.0	1677.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13623.2	0.0	13623.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	15301.0	0.0	15301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.1
10°-20°	471.5	3.1
20°-30°	813.4	5.3
30°-40°	1403.9	9.2
40°-50°	2401.4	15.7
50°-60°	3842.0	25.1
60°-70°	4439.0	29.0
70°-80°	1696.2	11.1
80°-90°	63.6	0.4
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°	15301.0	100.0
0°-180°	15301.0	100.0

Coefficient of Utilization



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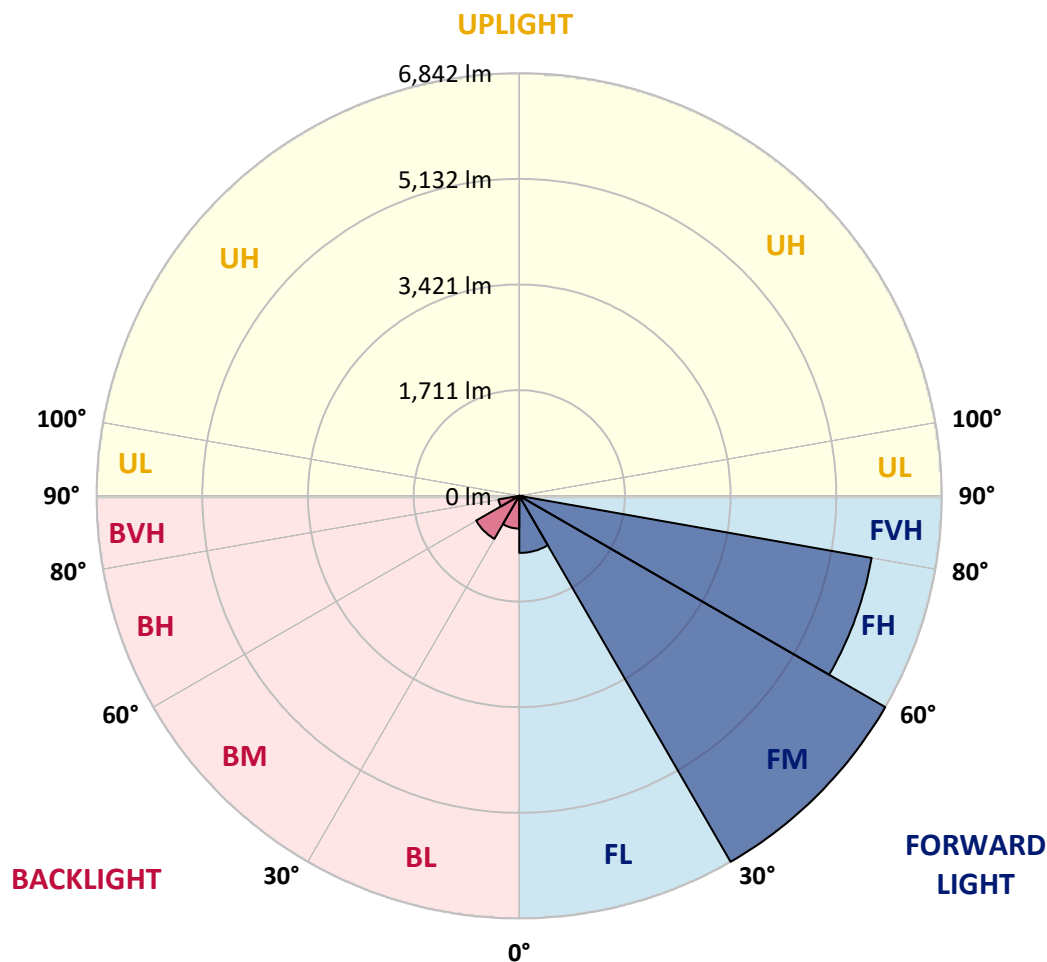
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.8	6.0			
FM	(30°-60°)	6842.5	44.7			
FH	(60°-80°)	5793.5	37.9			G3/7500
FVH	(80°-90°)	62.4	0.4			G1/100
BL	(0°-30°)	530.3	3.5	B2/1000		
BM	(30°-60°)	804.7	5.3	B1/1000		
BH	(60°-80°)	341.7	2.2	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1775.5	1783.4	1789.2	1792.8	1797.2	1806.6	1809.5	1813.8	1816.0	1816.0	1821.1
5°	1705.3	1714.0	1726.3	1736.4	1756.7	1782.7	1801.5	1808.8	1821.8	1833.4	1839.9
7.5°	1640.2	1650.3	1664.8	1688.7	1723.4	1765.3	1804.4	1814.5	1839.9	1864.5	1876.8
10°	1598.2	1606.2	1625.0	1659.0	1704.6	1763.2	1818.2	1830.5	1873.9	1915.1	1938.3
12.5°	1583.7	1591.0	1610.5	1648.9	1705.3	1774.0	1850.0	1868.1	1931.8	1991.8	2024.4
15°	1604.7	1606.2	1627.2	1663.3	1719.0	1800.8	1902.8	1924.5	2004.8	2083.0	2123.5
17.5°	1685.8	1679.2	1690.1	1706.0	1750.2	1836.2	1958.5	1991.1	2098.2	2190.0	2228.4
20°	1888.3	1888.3	1863.7	1820.3	1821.1	1891.2	2033.8	2070.7	2201.6	2308.0	2342.7
22.5°	2234.9	2228.4	2179.2	2072.8	1975.2	1986.0	2125.7	2173.4	2326.1	2439.7	2451.2
25°	2651.6	2643.7	2567.7	2417.9	2248.6	2139.4	2250.1	2305.1	2474.4	2574.9	2551.1
27.5°	3093.0	3086.5	3011.2	2825.3	2584.4	2383.9	2398.4	2450.5	2625.6	2724.7	2648.7
30°	3520.6	3522.7	3448.2	3257.2	2984.4	2695.8	2586.5	2616.9	2772.5	2873.0	2764.5
32.5°	3927.2	3930.1	3865.7	3652.2	3397.6	3058.2	2847.0	2839.0	2943.2	3042.3	2917.9
35°	4289.6	4296.9	4252.7	4087.1	3817.2	3462.0	3184.9	3166.0	3185.6	3297.7	3153.0
37.5°	4639.1	4643.4	4610.2	4470.5	4244.8	3905.5	3611.7	3585.0	3543.0	3629.1	3463.4
40°	5021.8	5011.0	4972.6	4846.0	4652.1	4395.3	4070.4	4024.1	3951.0	4027.7	3871.5
42.5°	5377.8	5365.5	5372.0	5228.8	5065.2	4898.8	4605.1	4525.5	4482.8	4571.1	4372.1
45°	5822.7	5816.2	5837.9	5713.5	5581.1	5460.3	5217.9	5131.1	5112.3	5215.7	4977.7
47.5°	6261.9	6277.8	6345.1	6292.3	6238.8	6132.4	5866.9	5827.8	5839.4	5964.6	5616.6
50°	6628.0	6646.8	6831.3	6892.1	6969.5	6907.3	6641.0	6617.2	6662.7	6775.6	6303.9
52.5°	6892.8	6931.2	7160.5	7440.5	7722.7	7764.6	7499.1	7477.4	7538.9	7556.3	6834.9
55°	7076.6	7110.6	7370.3	7882.6	8457.0	8637.9	8472.9	8389.0	8377.4	8206.0	7393.5
57.5°	7109.1	7105.5	7478.8	8168.3	9032.9	9499.6	9395.4	9312.9	9075.6	8806.5	8033.8
60°	6925.4	6946.3	7379.7	8267.5	9394.7	10151.5	10159.4	10052.3	9682.6	9390.3	8654.5
62.5°	6359.6	6445.0	6882.7	8007.7	9390.3	10414.1	10719.4	10637.7	10195.6	9868.6	9284.0
65°	5442.2	5472.6	5890.0	7117.8	8755.8	10304.1	11223.7	11193.3	10657.9	10333.1	9607.4
67.5°	3974.2	3908.4	4346.8	5605.0	7413.0	9663.1	11585.4	11623.8	11014.6	10428.6	9263.0
68°	3626.9	3646.5	3987.9	5230.9	7061.4	9436.6	11609.3	11667.9	11050.1	10366.3	9074.9
70°	2161.8	2199.4	2504.0	3601.6	5372.0	8155.3	11351.8	11485.6	10838.8	9724.6	7849.3
72.5°	552.0	596.9	884.8	1612.0	3068.4	5746.1	9582.8	9809.2	9410.6	7889.1	5298.9
75°	227.2	238.8	316.2	531.1	1143.1	2588.7	6316.2	6800.9	6523.8	4723.0	2394.8
77.5°	157.0	165.0	203.3	294.5	494.9	877.6	3096.6	3446.8	3105.3	1612.0	522.4
80°	112.9	119.4	145.4	196.1	284.3	313.3	1009.3	1167.0	926.8	353.8	129.5
82.5°	67.3	72.4	108.5	139.6	172.9	149.8	251.1	285.1	268.4	175.8	57.9
85°	33.3	39.1	73.1	99.8	93.3	62.9	76.7	85.4	105.6	107.1	31.1
87.5°	2.2	4.3	42.7	60.1	26.0	14.5	22.4	27.5	37.6	52.8	13.0
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°	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1823.2	1824.0	1818.9	1816.7	1818.2	1809.5	1805.9	1807.3	1807.3	1809.5	1805.9
5°	1841.3	1841.3	1832.6	1821.1	1814.5	1797.9	1787.1	1784.2	1782.0	1780.5	1777.6
7.5°	1880.4	1876.0	1860.8	1835.5	1813.8	1777.6	1750.2	1735.7	1728.4	1725.6	1723.4
10°	1943.3	1935.4	1910.0	1863.0	1813.1	1748.7	1688.7	1646.0	1610.5	1596.0	1587.4
12.5°	2028.0	2016.4	1973.7	1895.6	1808.0	1689.4	1559.1	1434.0	1317.5	1269.7	1245.9
15°	2125.7	2109.0	2041.7	1923.1	1778.4	1555.5	1272.6	1053.4	892.1	831.3	805.3
17.5°	2224.8	2203.1	2101.1	1940.4	1689.4	1278.4	892.8	674.3	566.5	537.6	527.4
20°	2324.6	2292.8	2152.4	1927.4	1488.2	921.7	588.9	492.7	461.6	452.9	450.0
22.5°	2419.4	2370.2	2198.7	1876.8	1178.6	618.6	465.9	435.5	425.4	420.4	418.9
25°	2501.9	2433.1	2239.2	1720.5	834.2	467.4	419.6	409.5	396.5	387.1	387.8
27.5°	2579.3	2496.1	2263.8	1462.9	556.4	399.4	388.5	374.8	350.9	337.2	337.2
30°	2672.6	2580.0	2281.9	1125.8	409.5	353.1	344.4	323.4	290.8	272.8	272.8
32.5°	2813.0	2707.3	2270.4	790.1	339.3	310.4	290.1	261.2	225.7	208.4	207.6
35°	3027.9	2904.1	2187.9	518.0	299.5	269.9	237.3	201.9	170.7	156.3	155.6
37.5°	3317.3	3167.5	2002.7	370.4	268.4	232.2	193.2	154.1	131.0	121.5	120.8
40°	3692.8	3473.5	1737.9	300.3	239.5	196.1	149.0	119.4	103.5	96.2	96.9
42.5°	4143.5	3801.3	1420.2	259.0	211.3	161.3	116.5	94.1	83.9	78.9	77.4
45°	4644.2	4124.7	1087.4	230.8	183.0	130.2	91.2	74.5	66.6	63.7	63.7
47.5°	5194.7	4439.4	795.9	206.2	152.7	100.6	73.1	60.8	54.3	52.1	51.4
50°	5694.7	4657.9	573.7	180.2	125.2	79.6	59.3	50.6	46.3	43.4	43.4
52.5°	6111.4	4726.6	422.5	151.9	101.3	63.7	49.2	43.4	39.1	36.9	36.9
55°	6478.2	4698.4	314.0	125.2	81.8	52.1	42.0	36.9	33.3	31.1	31.1
57.5°	6829.9	4607.3	234.4	102.0	65.8	42.0	35.5	31.1	27.5	26.0	26.0
60°	7117.1	4455.3	174.4	82.5	52.8	34.0	29.7	25.3	22.4	20.3	20.3
62.5°	7350.1	4287.5	128.1	68.0	42.0	26.8	23.2	21.0	16.6	14.5	14.5
65°	7351.5	4008.9	96.2	56.4	32.6	21.0	17.4	16.6	10.9	8.7	8.0
67.5°	6819.7	3456.2	73.8	48.5	25.3	15.9	13.0	13.7	5.8	3.6	2.9
68°	6626.6	3315.8	69.5	47.8	23.9	15.2	12.3	13.7	5.1	2.9	2.2
70°	5586.9	2637.9	55.7	46.3	21.0	11.6	10.1	13.7	4.3	2.2	1.4
72.5°	3573.4	1530.9	41.2	36.9	15.9	8.7	6.5	12.3	4.3	1.4	0.7
75°	1520.8	474.6	28.2	26.0	9.4	6.5	4.3	8.0	2.9	0.7	0.0
77.5°	320.5	107.1	16.6	15.9	6.5	4.3	2.9	2.2	0.7	0.0	0.0
80°	82.5	31.1	8.7	8.0	3.6	2.2	1.4	0.0	0.0	0.0	0.0
82.5°	26.0	12.3	5.1	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)