

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: P322390

Luminaire Tested: **GAN-SA6A-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322390
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-SA6A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 16140 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

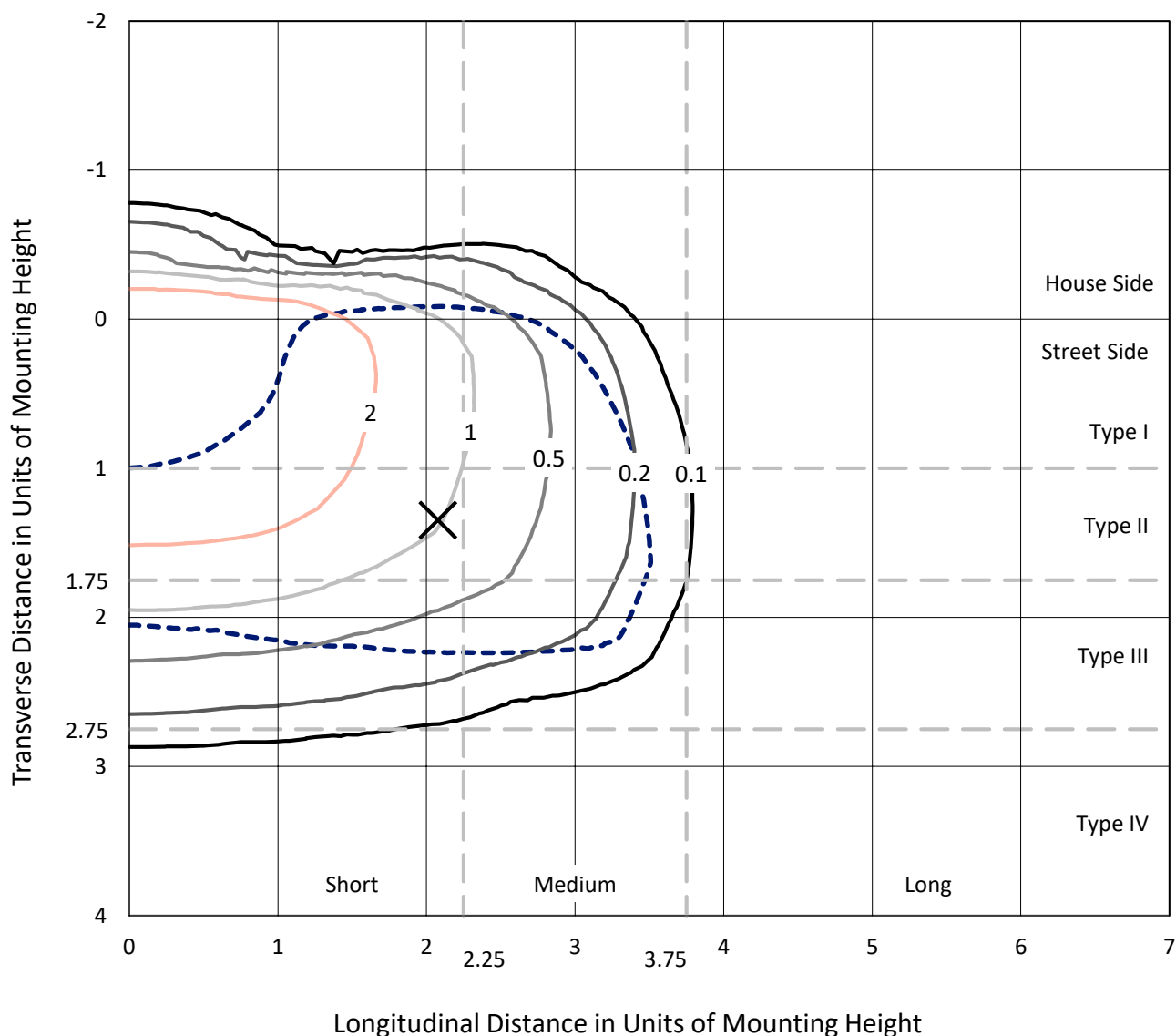
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

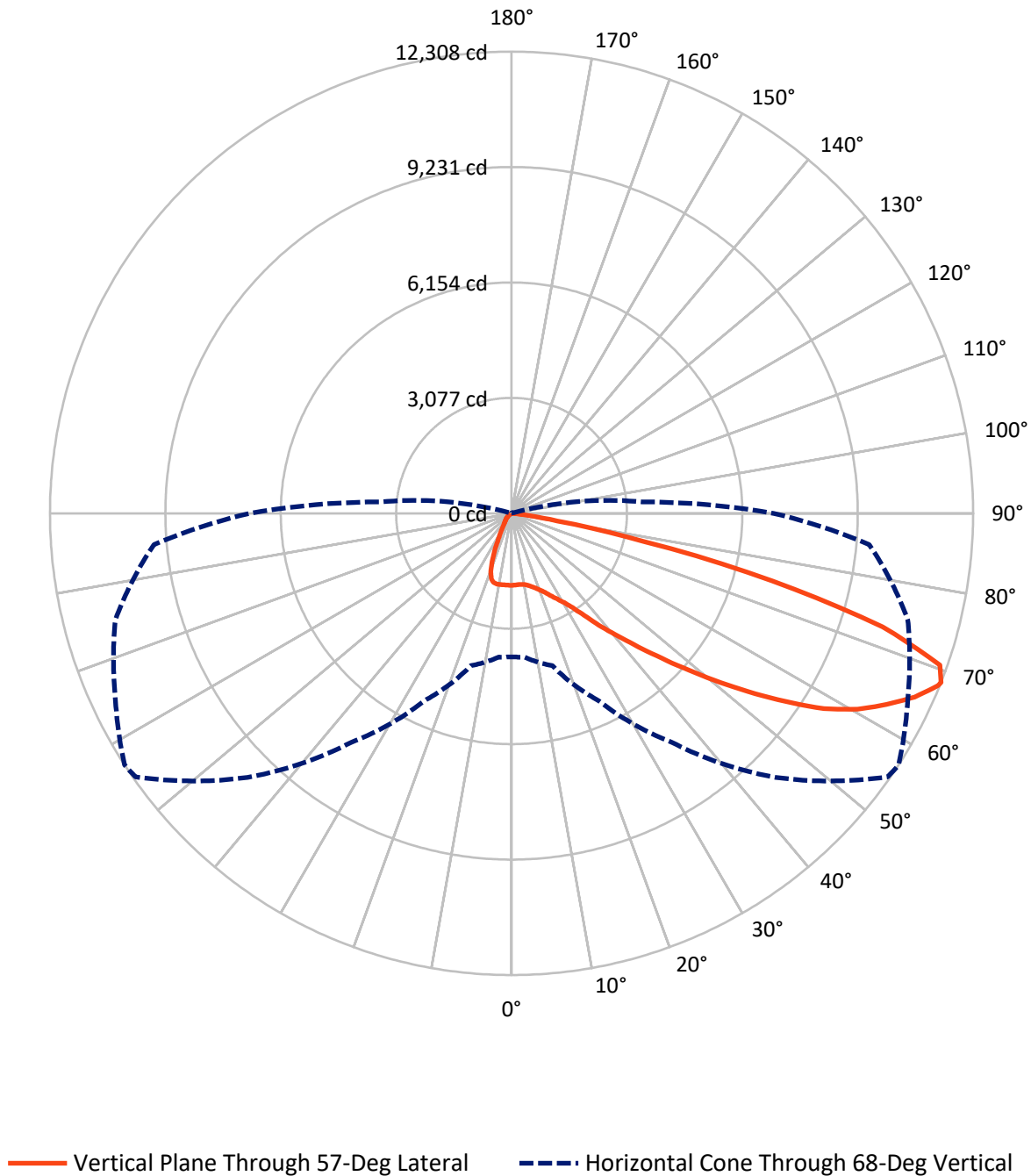
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1769.8	0.0	1769.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	14370.2	0.0	14370.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	16140.0	0.0	16140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	1.1
10°-20°	497.4	3.1
20°-30°	858.0	5.3
30°-40°	1480.9	9.2
40°-50°	2533.0	15.7
50°-60°	4052.6	25.1
60°-70°	4682.4	29.0
70°-80°	1789.2	11.1
80°-90°	67.1	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°	16140.0	100.0
0°-180°	16140.0	100.0

Coefficient of Utilization



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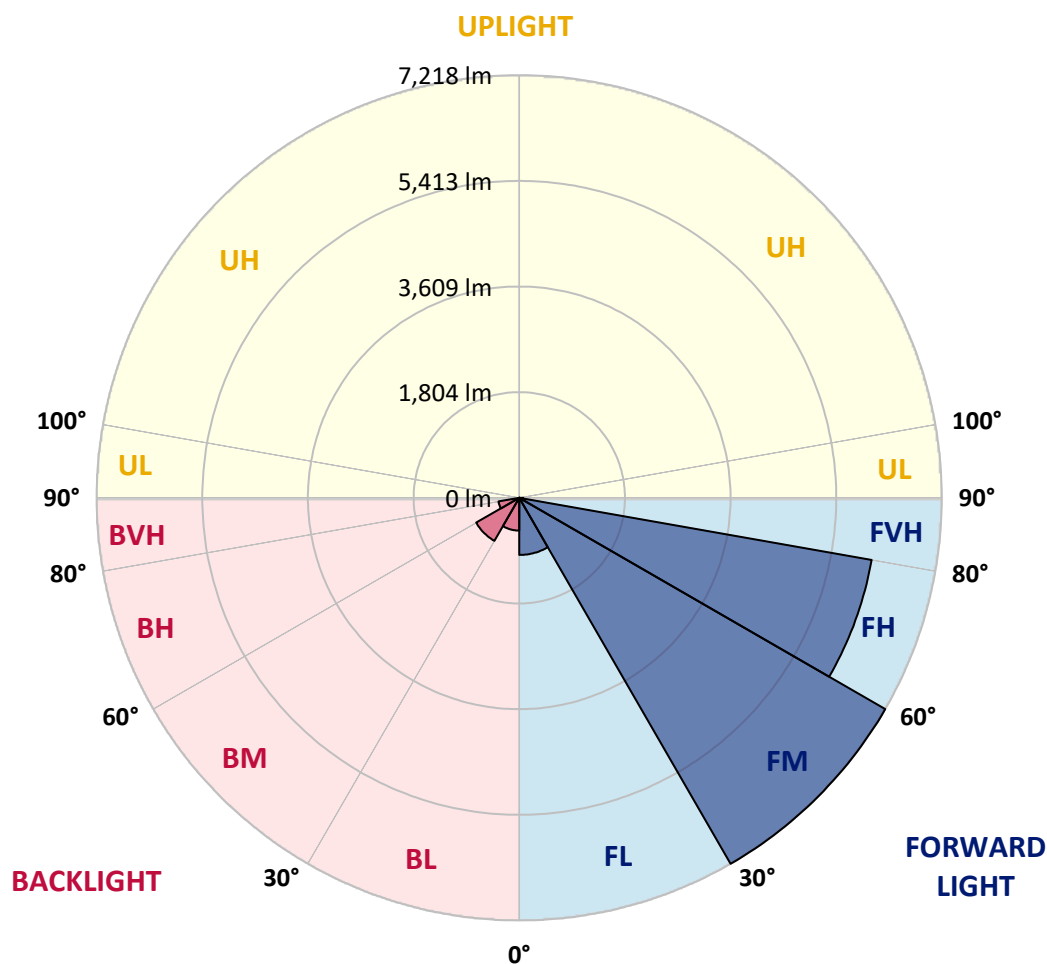
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.5	6.0			
FM	(30°-60°)	7217.7	44.7			
FH	(60°-80°)	6111.1	37.9			G3/7500
FVH	(80°-90°)	65.8	0.4			G1/100
BL	(0°-30°)	559.3	3.5	B2/1000		
BM	(30°-60°)	848.8	5.3	B1/1000		
BH	(60°-80°)	360.4	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°	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9
2.5°	1872.8	1881.2	1887.3	1891.1	1895.7	1905.6	1908.7	1913.3	1915.6	1915.6	1920.9
5°	1798.8	1808.0	1820.9	1831.6	1853.0	1880.5	1900.3	1907.9	1921.7	1933.9	1940.8
7.5°	1730.1	1740.8	1756.1	1781.2	1817.9	1862.1	1903.4	1914.0	1940.8	1966.7	1979.7
10°	1685.9	1694.2	1714.1	1750.0	1798.0	1859.9	1917.9	1930.8	1976.6	2020.1	2044.5
12.5°	1670.6	1678.2	1698.8	1739.3	1798.8	1871.3	1951.4	1970.5	2037.7	2101.0	2135.4
15°	1692.7	1694.2	1716.4	1754.5	1813.3	1899.5	2007.1	2030.0	2114.8	2197.2	2239.9
17.5°	1778.2	1771.3	1782.8	1799.6	1846.1	1936.9	2065.9	2100.3	2213.2	2310.1	2350.6
20°	1991.9	1991.9	1965.9	1920.1	1920.9	1994.9	2145.3	2184.2	2322.3	2434.5	2471.2
22.5°	2357.4	2350.6	2298.7	2186.5	2083.5	2094.9	2242.2	2292.6	2453.6	2573.4	2585.6
25°	2797.0	2788.6	2708.5	2550.5	2371.9	2256.7	2373.5	2431.5	2610.1	2716.1	2691.0
27.5°	3262.6	3255.7	3176.3	2980.2	2726.1	2514.7	2529.9	2584.9	2769.6	2874.1	2794.0
30°	3713.6	3715.9	3637.3	3435.8	3148.1	2843.6	2728.3	2760.4	2924.5	3030.6	2916.1
32.5°	4142.5	4145.6	4077.6	3852.5	3583.9	3225.9	3003.1	2994.7	3104.6	3209.1	3077.9
35°	4524.9	4532.5	4485.9	4311.2	4026.5	3651.8	3359.5	3339.7	3360.3	3478.5	3325.9
37.5°	4893.5	4898.1	4862.9	4715.7	4477.5	4119.6	3809.8	3781.5	3737.3	3828.1	3653.3
40°	5297.2	5285.7	5245.3	5111.7	4907.2	4636.3	4293.6	4244.8	4167.7	4248.6	4083.7
42.5°	5672.7	5659.7	5666.6	5515.5	5343.0	5167.5	4857.6	4773.7	4728.6	4821.7	4611.9
45°	6142.0	6135.2	6158.1	6026.8	5887.1	5759.7	5504.0	5412.4	5392.6	5501.7	5250.6
47.5°	6605.3	6622.1	6693.0	6637.3	6580.9	6468.7	6188.6	6147.4	6159.6	6291.6	5924.5
50°	6991.4	7011.3	7205.9	7270.0	7351.7	7286.0	7005.2	6980.0	7028.1	7147.1	6649.5
52.5°	7270.8	7311.2	7553.1	7848.5	8146.1	8190.4	7910.3	7887.4	7952.3	7970.6	7209.7
55°	7464.6	7500.5	7774.5	8314.8	8920.7	9111.5	8937.5	8849.0	8836.8	8655.9	7798.9
57.5°	7499.0	7495.1	7888.9	8616.2	9528.2	10020.5	9910.6	9823.6	9573.3	9289.4	8474.3
60°	7305.1	7327.2	7784.4	8720.8	9909.8	10708.1	10716.5	10603.5	10213.6	9905.2	9129.1
62.5°	6708.3	6798.4	7260.1	8446.8	9905.2	10985.1	11307.2	11221.0	10754.7	10409.7	9793.1
65°	5740.6	5772.7	6213.0	7508.1	9235.9	10869.1	11839.1	11807.1	11242.3	10899.7	10134.2
67.5°	4192.1	4122.7	4585.2	5912.3	7819.5	10193.0	12220.7	12261.2	11618.6	11000.4	9770.9
68°	3825.8	3846.4	4206.6	5517.8	7448.6	9954.1	12245.9	12307.7	11656.0	10934.8	9572.5
70°	2280.4	2320.1	2641.3	3799.1	5666.6	8602.5	11974.2	12115.4	11433.1	10257.8	8279.7
72.5°	582.3	629.6	933.4	1700.4	3236.6	6061.1	10108.2	10347.1	9926.6	8321.7	5589.5
75°	239.6	251.8	333.5	560.2	1205.8	2730.6	6662.5	7173.8	6881.5	4982.0	2526.1
77.5°	165.6	174.0	214.5	310.6	522.0	925.7	3266.4	3635.8	3275.5	1700.4	551.0
80°	119.1	125.9	153.4	206.8	299.9	330.5	1064.6	1231.0	977.6	373.2	136.6
82.5°	71.0	76.3	114.5	147.3	182.4	158.0	264.8	300.7	283.1	185.5	61.1
85°	35.1	41.2	77.1	105.3	98.4	66.4	80.9	90.1	111.4	112.9	32.8
87.5°	2.3	4.6	45.0	63.3	27.5	15.3	23.7	29.0	39.7	55.7	13.7
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°	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9	1917.9
2.5°	1923.2	1924.0	1918.6	1916.3	1917.9	1908.7	1904.9	1906.4	1906.4	1908.7	1904.9
5°	1942.3	1942.3	1933.1	1920.9	1914.0	1896.5	1885.0	1882.0	1879.7	1878.2	1875.1
7.5°	1983.5	1978.9	1962.9	1936.2	1913.3	1875.1	1846.1	1830.9	1823.2	1820.2	1817.9
10°	2049.9	2041.5	2014.8	1965.2	1912.5	1844.6	1781.2	1736.2	1698.8	1683.6	1674.4
12.5°	2139.2	2127.0	2081.9	1999.5	1907.2	1782.0	1644.6	1512.6	1389.7	1339.4	1314.2
15°	2242.2	2224.7	2153.7	2028.5	1875.9	1640.8	1342.4	1111.2	941.0	876.9	849.4
17.5°	2346.8	2323.9	2216.3	2046.8	1782.0	1348.5	941.8	711.3	597.6	567.0	556.4
20°	2452.1	2418.5	2270.4	2033.1	1569.8	972.3	621.2	519.7	486.9	477.7	474.7
22.5°	2552.1	2500.2	2319.3	1979.7	1243.2	652.5	491.5	459.4	448.7	443.4	441.9
25°	2639.1	2566.6	2362.0	1814.8	879.9	493.0	442.6	432.0	418.2	408.3	409.1
27.5°	2720.7	2633.0	2388.0	1543.1	586.9	421.3	409.8	395.3	370.1	355.6	355.6
30°	2819.2	2721.5	2407.1	1187.5	432.0	372.4	363.3	341.1	306.8	287.7	287.7
32.5°	2967.2	2855.8	2394.8	833.4	357.9	327.4	306.0	275.5	238.1	219.8	219.0
35°	3193.9	3063.4	2307.8	546.4	316.0	284.7	250.3	212.9	180.1	164.8	164.1
37.5°	3499.2	3341.2	2112.5	390.7	283.1	245.0	203.8	162.6	138.1	128.2	127.5
40°	3895.2	3664.0	1833.1	316.7	252.6	206.8	157.2	125.9	109.1	101.5	102.3
42.5°	4370.7	4009.7	1498.1	273.2	222.8	170.2	122.9	99.2	88.5	83.2	81.7
45°	4898.8	4350.9	1147.1	243.5	193.1	137.4	96.2	78.6	70.2	67.2	67.2
47.5°	5479.6	4682.8	839.5	217.5	161.0	106.1	77.1	64.1	57.2	54.9	54.2
50°	6006.9	4913.3	605.2	190.0	132.0	83.9	62.6	53.4	48.8	45.8	45.8
52.5°	6446.5	4985.8	445.7	160.3	106.8	67.2	51.9	45.8	41.2	38.9	38.9
55°	6833.5	4956.1	331.2	132.0	86.2	54.9	44.3	38.9	35.1	32.8	32.8
57.5°	7204.4	4859.9	247.3	107.6	69.4	44.3	37.4	32.8	29.0	27.5	27.5
60°	7507.3	4699.6	183.9	87.0	55.7	35.9	31.3	26.7	23.7	21.4	21.4
62.5°	7753.1	4522.6	135.1	71.7	44.3	28.2	24.4	22.1	17.6	15.3	15.3
65°	7754.6	4228.7	101.5	59.5	34.3	22.1	18.3	17.6	11.4	9.2	8.4
67.5°	7193.7	3645.7	77.8	51.1	26.7	16.8	13.7	14.5	6.1	3.8	3.1
68°	6989.9	3497.6	73.3	50.4	25.2	16.0	13.0	14.5	5.3	3.1	2.3
70°	5893.2	2782.5	58.8	48.8	22.1	12.2	10.7	14.5	4.6	2.3	1.5
72.5°	3769.3	1614.9	43.5	38.9	16.8	9.2	6.9	13.0	4.6	1.5	0.8
75°	1604.2	500.6	29.8	27.5	9.9	6.9	4.6	8.4	3.1	0.8	0.0
77.5°	338.1	112.9	17.6	16.8	6.9	4.6	3.1	2.3	0.8	0.0	0.0
80°	87.0	32.8	9.2	8.4	3.8	2.3	1.5	0.0	0.0	0.0	0.0
82.5°	27.5	13.0	5.3	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.7	7.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	2.3	0.8	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)