

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: P322408

Luminaire Tested: **GAN-SA4C-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322408
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-SA4C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 16523 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 225
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



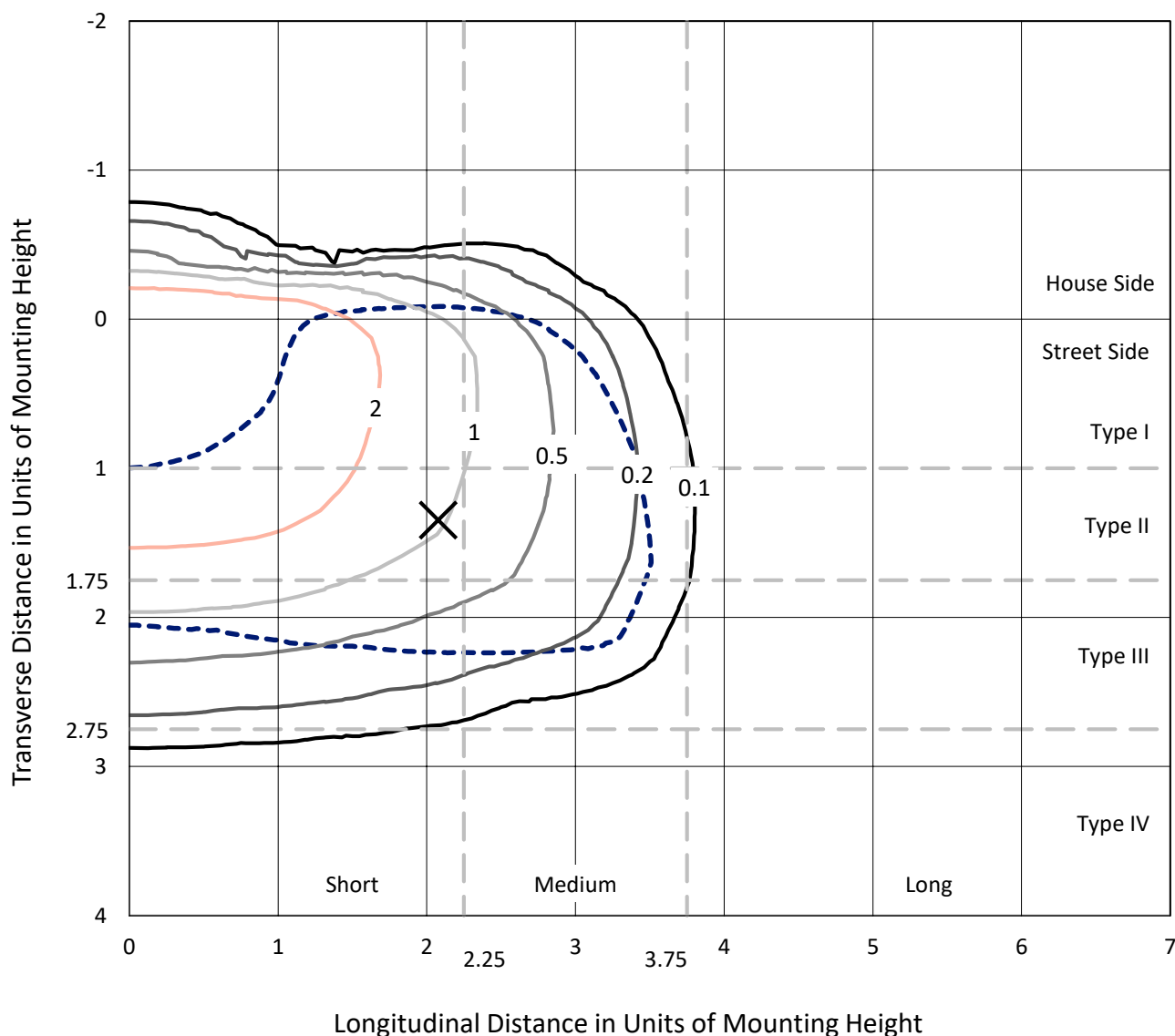
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

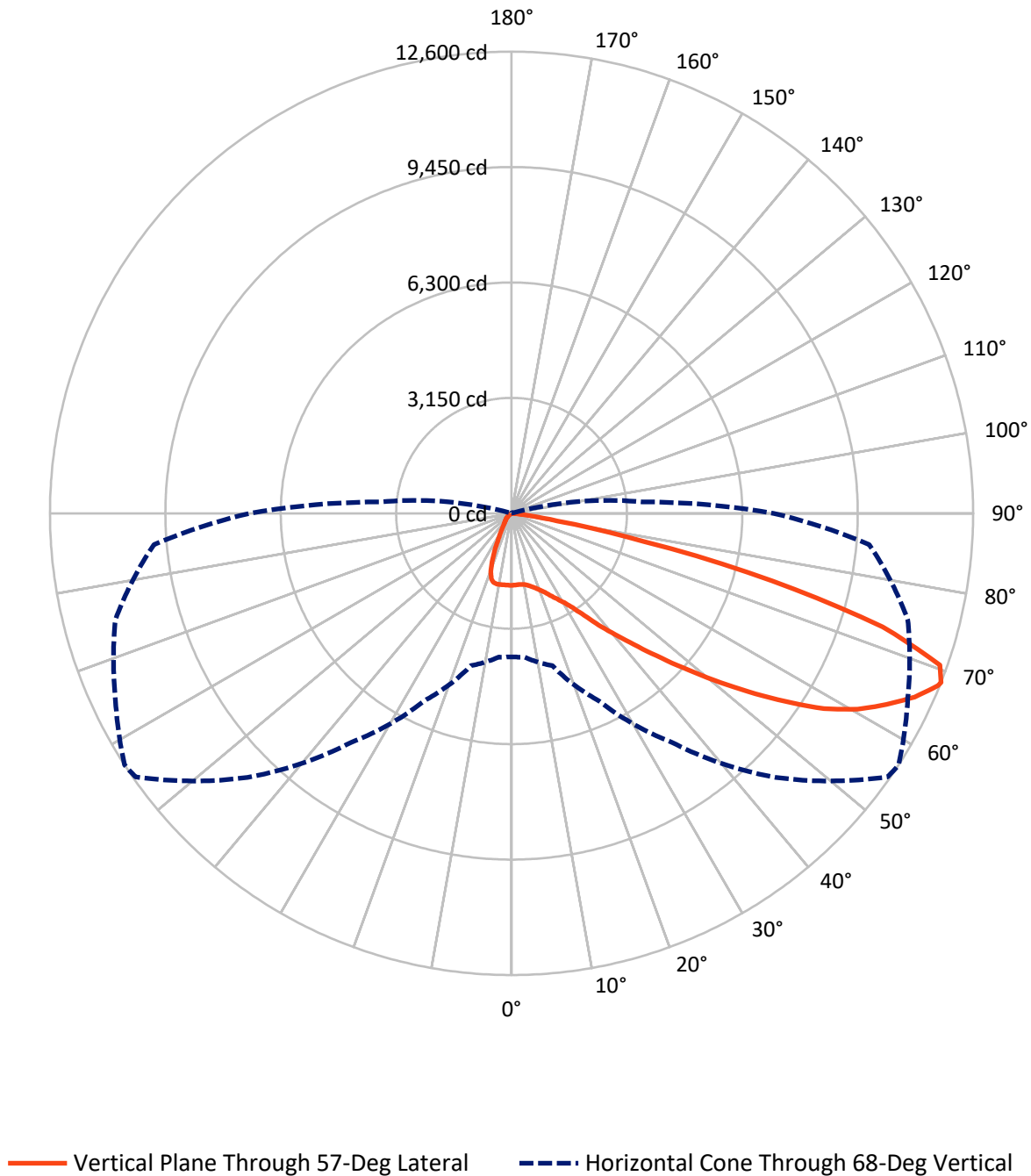


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

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	1811.9	0.0	1811.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	14711.1	0.0	14711.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	16523.0	0.0	16523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	1.1
10°-20°	509.2	3.1
20°-30°	878.4	5.3
30°-40°	1516.0	9.2
40°-50°	2593.2	15.7
50°-60°	4148.8	25.1
60°-70°	4793.5	29.0
70°-80°	1831.7	11.1
80°-90°	68.7	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°	16523.0	100.0
0°-180°	16523.0	100.0

Coefficient of Utilization



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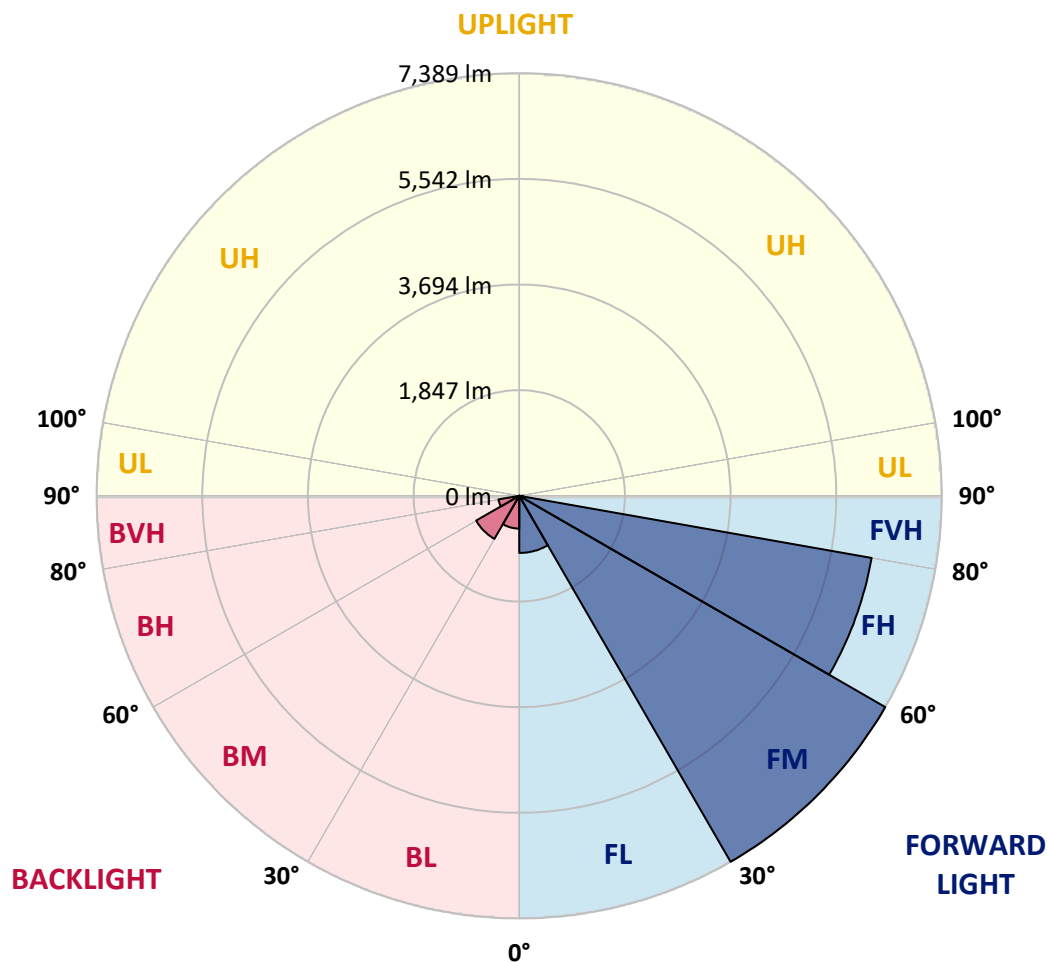
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	998.7	6.0			
FM	(30°-60°)	7388.9	44.7			
FH	(60°-80°)	6256.1	37.9			G3/7500
FVH	(80°-90°)	67.4	0.4			G1/100
BL	(0°-30°)	572.6	3.5	B2/1000		
BM	(30°-60°)	869.0	5.3	B1/1000		
BH	(60°-80°)	369.0	2.2	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4
2.5°	1917.3	1925.9	1932.1	1936.0	1940.7	1950.9	1954.0	1958.7	1961.0	1961.0	1966.5
5°	1841.5	1850.9	1864.1	1875.1	1897.0	1925.1	1945.4	1953.2	1967.3	1979.8	1986.8
7.5°	1771.2	1782.1	1797.7	1823.5	1861.0	1906.3	1948.5	1959.5	1986.8	2013.4	2026.7
10°	1725.9	1734.5	1754.8	1791.5	1840.7	1904.0	1963.4	1976.6	2023.5	2068.1	2093.1
12.5°	1710.2	1718.0	1739.1	1780.5	1841.5	1915.7	1997.7	2017.3	2086.0	2150.9	2186.0
15°	1732.9	1734.5	1757.1	1796.2	1856.3	1944.6	2054.8	2078.2	2164.9	2249.3	2293.1
17.5°	1820.4	1813.4	1825.1	1842.3	1889.9	1982.9	2114.9	2150.1	2265.7	2364.9	2406.4
20°	2039.2	2039.2	2012.6	1965.7	1966.5	2042.3	2196.2	2236.0	2377.4	2492.3	2529.8
22.5°	2413.4	2406.4	2353.2	2238.4	2132.9	2144.6	2295.4	2347.0	2511.8	2634.5	2647.0
25°	2863.4	2854.8	2772.8	2611.1	2428.2	2310.3	2429.8	2489.2	2672.0	2780.6	2754.8
27.5°	3340.0	3333.0	3251.7	3050.9	2790.7	2574.3	2590.0	2646.2	2835.3	2942.3	2860.3
30°	3801.7	3804.1	3723.6	3517.3	3222.8	2911.1	2793.1	2825.9	2993.9	3102.5	2985.3
32.5°	4240.8	4243.9	4174.4	3943.9	3668.9	3302.5	3074.4	3065.8	3178.3	3285.3	3150.9
35°	4632.2	4640.0	4592.4	4413.5	4122.1	3738.4	3439.2	3418.9	3440.0	3561.1	3404.8
37.5°	5009.6	5014.3	4978.3	4827.6	4583.8	4217.4	3900.2	3871.3	3826.0	3918.9	3740.0
40°	5422.9	5411.2	5369.8	5233.0	5023.7	4746.3	4395.5	4345.5	4266.6	4349.4	4180.7
42.5°	5807.3	5794.0	5801.0	5646.3	5469.8	5290.1	4972.9	4886.9	4840.8	4936.2	4721.3
45°	6287.8	6280.7	6304.2	6169.8	6026.8	5896.4	5634.6	5540.9	5520.6	5632.3	5375.2
47.5°	6762.0	6779.2	6851.9	6794.8	6737.0	6622.2	6335.4	6293.2	6305.7	6440.9	6065.1
50°	7157.3	7177.7	7376.9	7442.5	7526.1	7458.9	7171.4	7145.6	7194.8	7316.7	6807.3
52.5°	7443.3	7484.7	7732.4	8034.7	8339.4	8384.7	8098.0	8074.6	8141.0	8159.7	7380.8
55°	7641.7	7678.5	7958.9	8512.1	9132.4	9327.8	9149.6	9059.0	9046.5	8861.3	7983.9
57.5°	7676.9	7673.0	8076.1	8820.7	9754.3	10258.3	10145.8	10056.7	9800.4	9509.8	8675.4
60°	7478.5	7501.1	7969.1	8927.7	10145.0	10962.2	10970.8	10855.2	10455.9	10140.3	9345.7
62.5°	6867.5	6959.7	7432.4	8647.3	10140.3	11245.8	11575.5	11487.2	11009.9	10656.7	10025.4
65°	5876.8	5909.6	6360.4	7686.3	9455.1	11127.1	12120.1	12087.3	11509.1	11158.3	10374.7
67.5°	4291.6	4220.5	4694.0	6052.6	8005.0	10434.8	12510.7	12552.1	11894.3	11261.4	10002.8
68°	3916.6	3937.7	4306.4	5648.7	7625.3	10190.3	12536.5	12599.8	11932.6	11194.2	9799.7
70°	2334.5	2375.1	2704.0	3889.2	5801.0	8806.6	12258.4	12402.9	11704.4	10501.2	8476.2
72.5°	596.1	644.6	955.5	1740.7	3313.4	6205.0	10348.1	10592.7	10162.2	8519.1	5722.1
75°	245.3	257.8	341.4	573.5	1234.4	2795.4	6820.6	7344.1	7044.8	5100.2	2586.1
77.5°	169.5	178.1	219.5	318.0	534.4	947.7	3343.9	3722.0	3353.3	1740.7	564.1
80°	121.9	128.9	157.0	211.7	307.0	338.3	1089.9	1260.2	1000.8	382.0	139.8
82.5°	72.7	78.1	117.2	150.8	186.7	161.7	271.1	307.8	289.9	189.9	62.5
85°	35.9	42.2	78.9	107.8	100.8	68.0	82.8	92.2	114.1	115.6	33.6
87.5°	2.3	4.7	46.1	64.8	28.1	15.6	24.2	29.7	40.6	57.0	14.1
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°	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4	1963.4
2.5°	1968.8	1969.6	1964.1	1961.8	1963.4	1954.0	1950.1	1951.6	1951.6	1954.0	1950.1
5°	1988.4	1988.4	1979.0	1966.5	1959.5	1941.5	1929.8	1926.6	1924.3	1922.7	1919.6
7.5°	2030.6	2025.9	2009.5	1982.1	1958.7	1919.6	1889.9	1874.3	1866.5	1863.4	1861.0
10°	2098.5	2089.9	2062.6	2011.8	1957.9	1888.4	1823.5	1777.4	1739.1	1723.5	1714.1
12.5°	2189.9	2177.4	2131.3	2047.0	1952.4	1824.3	1683.7	1548.5	1422.7	1371.2	1345.4
15°	2295.4	2277.4	2204.8	2076.7	1920.4	1679.8	1374.3	1137.6	963.3	897.7	869.6
17.5°	2402.4	2379.0	2268.9	2095.4	1824.3	1380.5	964.1	728.2	611.7	580.5	569.6
20°	2510.3	2475.9	2324.3	2081.3	1607.1	995.4	636.0	532.1	498.5	489.1	486.0
22.5°	2612.6	2559.5	2374.3	2026.7	1272.7	668.0	503.1	470.3	459.4	453.9	452.4
25°	2701.7	2627.5	2418.1	1857.9	900.8	504.7	453.1	442.2	428.1	418.0	418.8
27.5°	2785.3	2695.4	2444.6	1579.8	600.8	431.3	419.5	404.7	378.9	364.1	364.1
30°	2886.1	2786.1	2464.2	1215.7	442.2	381.3	371.9	349.2	314.1	294.5	294.5
32.5°	3037.6	2923.6	2451.7	853.2	366.4	335.2	313.3	282.0	243.8	225.0	224.2
35°	3269.7	3136.1	2362.6	559.4	323.5	291.4	256.3	218.0	184.4	168.8	168.0
37.5°	3582.2	3420.5	2162.6	400.0	289.9	250.8	208.6	166.4	141.4	131.3	130.5
40°	3987.7	3750.9	1876.6	324.2	258.6	211.7	160.9	128.9	111.7	103.9	104.7
42.5°	4474.4	4104.9	1533.7	279.7	228.1	174.2	125.8	101.6	90.6	85.2	83.6
45°	5015.1	4454.1	1174.3	249.2	197.7	140.6	98.4	80.5	71.9	68.8	68.8
47.5°	5609.6	4794.0	859.4	222.7	164.9	108.6	78.9	65.6	58.6	56.3	55.5
50°	6149.5	5029.9	619.6	194.5	135.2	85.9	64.1	54.7	50.0	46.9	46.9
52.5°	6599.5	5104.1	456.3	164.1	109.4	68.8	53.1	46.9	42.2	39.8	39.8
55°	6995.6	5073.7	339.1	135.2	88.3	56.3	45.3	39.8	35.9	33.6	33.6
57.5°	7375.3	4975.2	253.1	110.2	71.1	45.3	38.3	33.6	29.7	28.1	28.1
60°	7685.5	4811.2	188.3	89.1	57.0	36.7	32.0	27.3	24.2	21.9	21.9
62.5°	7937.1	4629.9	138.3	73.4	45.3	28.9	25.0	22.7	18.0	15.6	15.6
65°	7938.6	4329.1	103.9	60.9	35.2	22.7	18.8	18.0	11.7	9.4	8.6
67.5°	7364.4	3732.2	79.7	52.3	27.3	17.2	14.1	14.8	6.3	3.9	3.1
68°	7155.8	3580.6	75.0	51.6	25.8	16.4	13.3	14.8	5.5	3.1	2.3
70°	6033.1	2848.6	60.2	50.0	22.7	12.5	10.9	14.8	4.7	2.3	1.6
72.5°	3858.8	1653.2	44.5	39.8	17.2	9.4	7.0	13.3	4.7	1.6	0.8
75°	1642.3	512.5	30.5	28.1	10.2	7.0	4.7	8.6	3.1	0.8	0.0
77.5°	346.1	115.6	18.0	17.2	7.0	4.7	3.1	2.3	0.8	0.0	0.0
80°	89.1	33.6	9.4	8.6	3.9	2.3	1.6	0.0	0.0	0.0	0.0
82.5°	28.1	13.3	5.5	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	7.8	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	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)