

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: P322688

Luminaire Tested: **GAN-SA4C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14895 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

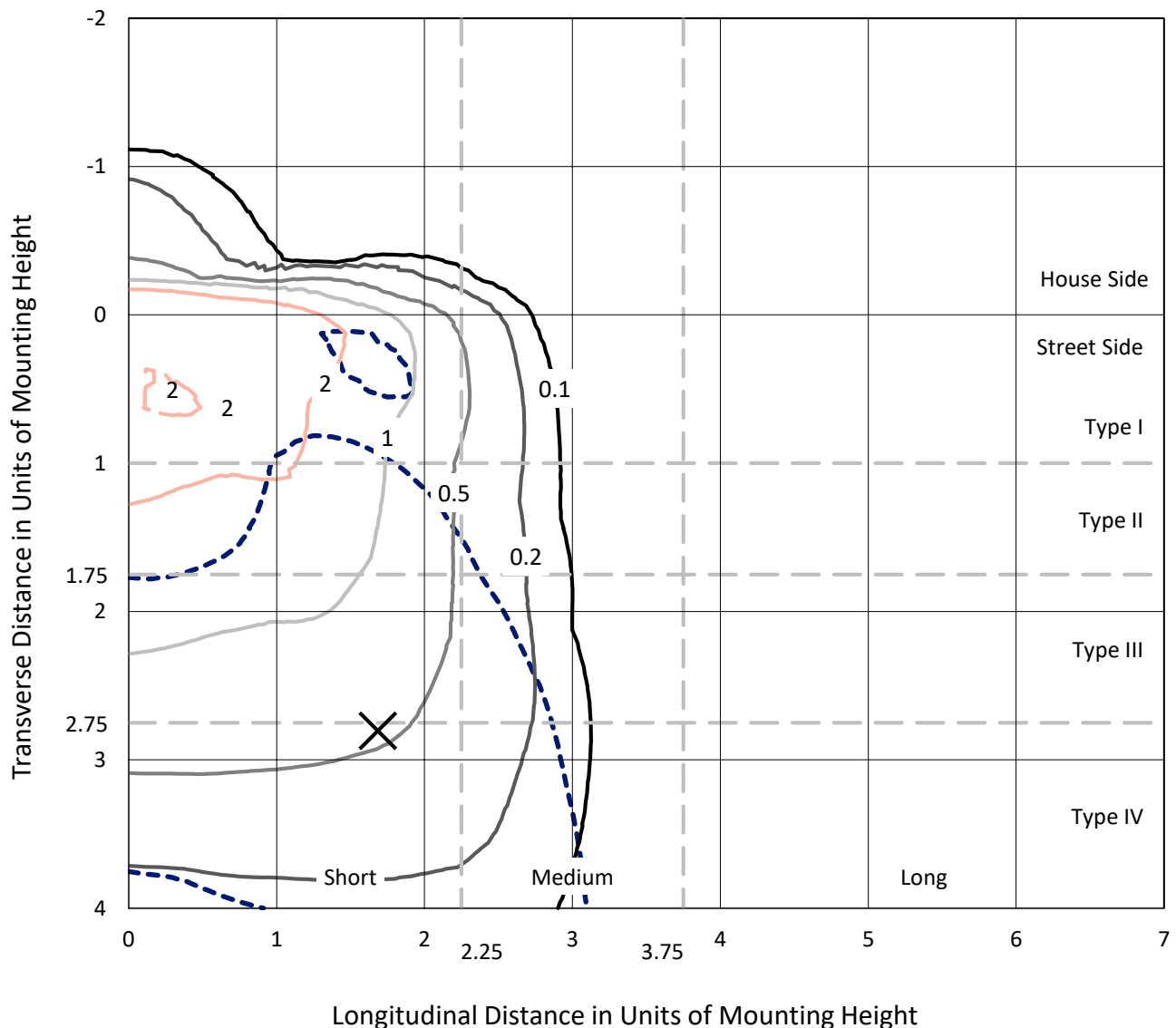
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

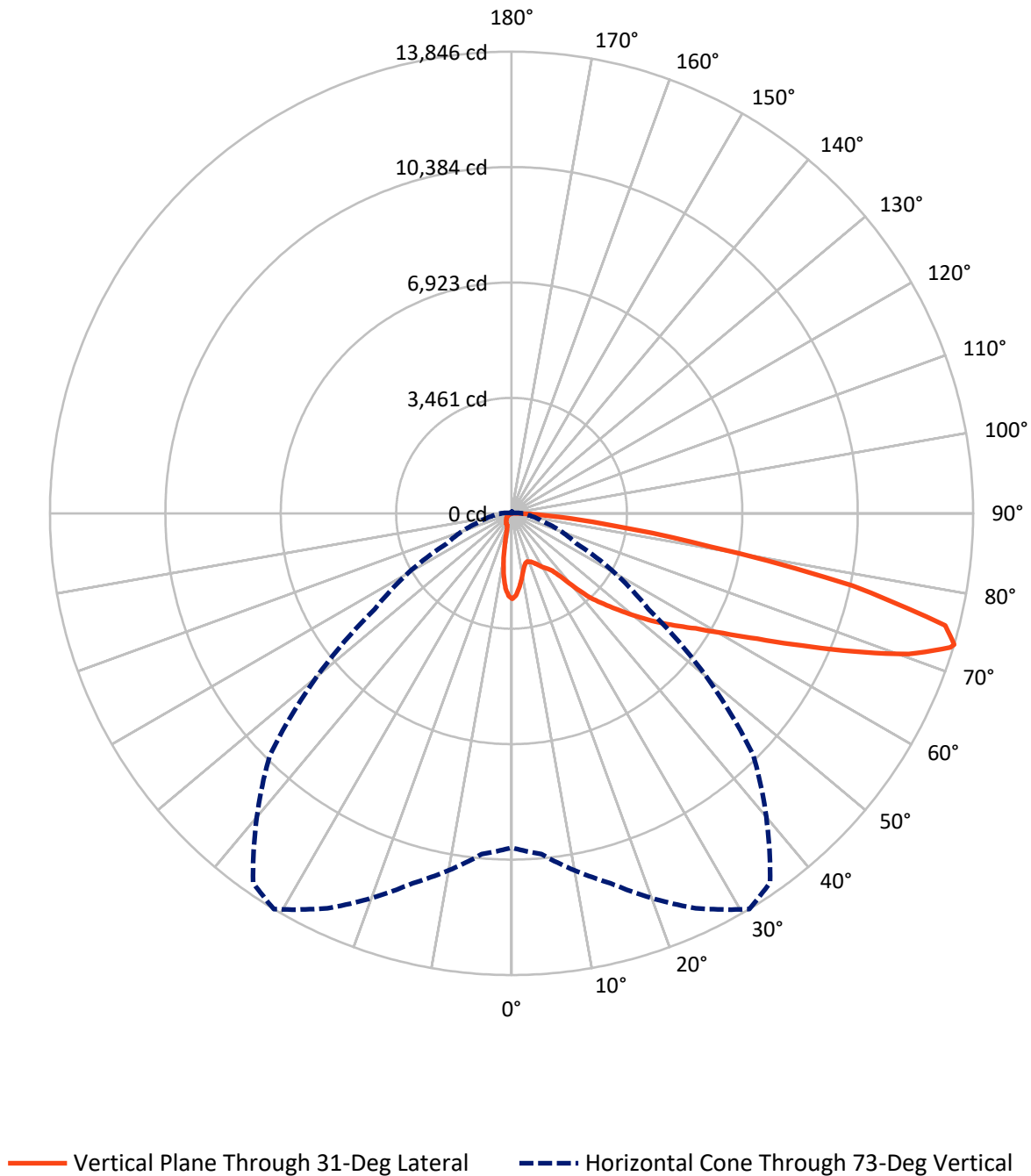
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1357.7	0.0	1357.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	13537.3	0.0	13537.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	14895.0	0.0	14895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	1.4
10°-20°	461.4	3.1
20°-30°	691.3	4.6
30°-40°	1099.8	7.4
40°-50°	1963.9	13.2
50°-60°	3047.5	20.5
60°-70°	4051.2	27.2
70°-80°	3047.3	20.5
80°-90°	320.2	2.1
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°	14895.0	100.0
0°-180°	14895.0	100.0

Coefficient of Utilization



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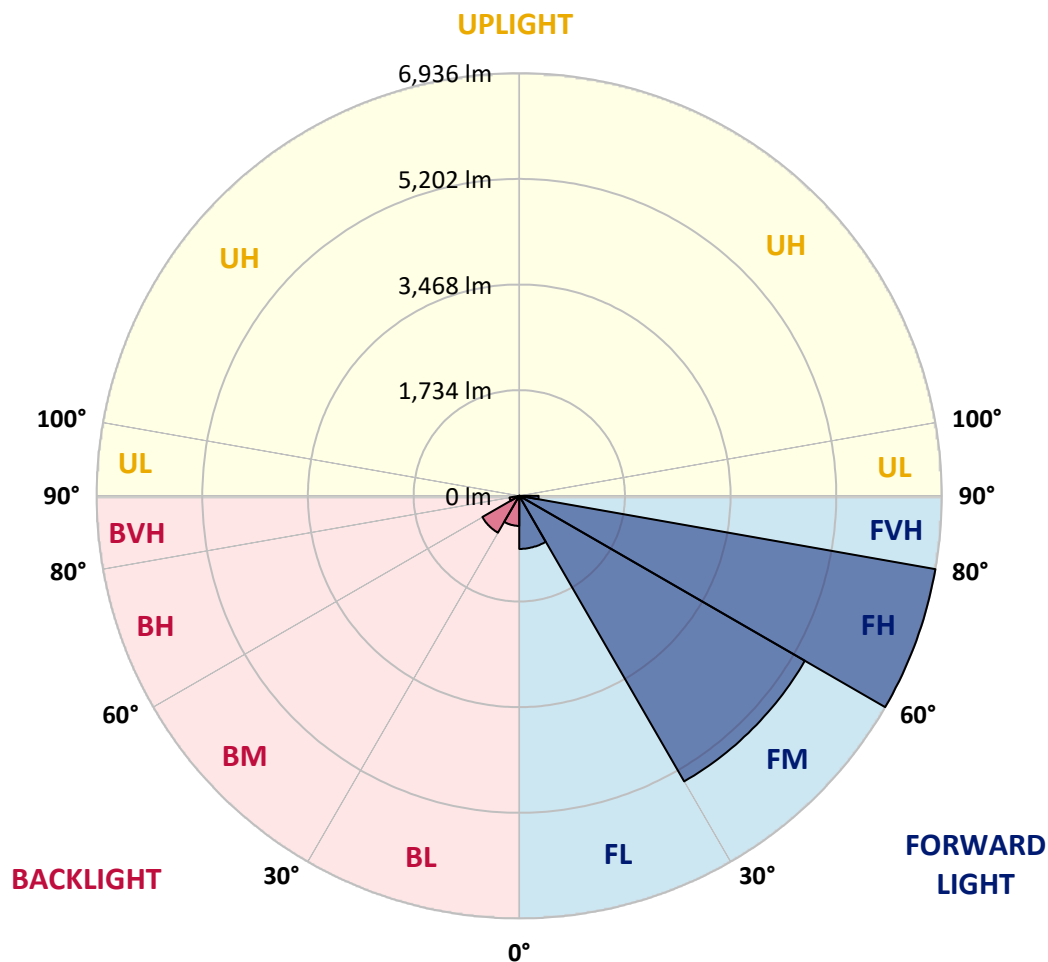
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.4	5.9			
FM	(30°-60°)	5412.3	36.3			
FH	(60°-80°)	6936.0	46.6			G3/7500
FVH	(80°-90°)	317.5	2.1			G3/500
BL	(0°-30°)	493.7	3.3	B1/500		
BM	(30°-60°)	698.9	4.7	B1/1000		
BH	(60°-80°)	162.4	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7
2.5°	2428.6	2438.8	2449.7	2451.9	2470.1	2470.9	2497.1	2516.8	2536.5	2555.4	2562.0
5°	2179.3	2196.1	2215.8	2235.5	2274.1	2289.4	2353.5	2419.1	2481.8	2541.6	2570.7
7.5°	1913.3	1932.2	1959.9	2008.8	2051.8	2081.7	2183.0	2299.6	2416.2	2526.3	2589.7
10°	1670.6	1688.1	1717.2	1769.0	1835.3	1876.1	2012.4	2174.2	2345.5	2512.4	2618.1
12.5°	1516.1	1525.5	1541.6	1597.0	1656.7	1702.6	1863.0	2063.4	2287.2	2511.7	2664.0
15°	1487.6	1490.5	1477.4	1502.2	1548.9	1593.3	1755.9	1973.8	2242.7	2523.4	2723.8
17.5°	1532.8	1531.4	1487.6	1484.7	1521.9	1558.3	1703.4	1911.8	2211.4	2550.3	2801.1
20°	1601.3	1596.2	1520.4	1506.6	1545.9	1580.2	1699.7	1888.5	2199.7	2595.5	2895.1
22.5°	1692.4	1683.7	1564.9	1550.3	1592.6	1628.3	1744.9	1911.1	2209.9	2656.0	3004.4
25°	1805.4	1792.3	1641.4	1625.4	1668.4	1704.1	1825.8	1976.0	2240.6	2729.6	3142.9
27.5°	1933.0	1914.0	1763.9	1722.3	1771.2	1808.3	1933.7	2075.1	2288.7	2807.6	3312.7
30°	2053.2	2028.5	1892.9	1824.4	1884.1	1925.7	2050.3	2193.2	2365.9	2927.9	3545.2
32.5°	2174.2	2146.5	2008.0	1926.4	1980.3	2025.5	2170.6	2355.7	2511.0	3111.6	3854.3
35°	2452.7	2423.5	2253.7	2118.8	2118.1	2143.6	2339.0	2578.0	2702.7	3367.4	4223.1
37.5°	2921.3	2904.6	2742.7	2486.9	2418.4	2390.0	2568.5	2843.3	2978.2	3719.4	4639.3
40°	3434.4	3419.9	3238.4	3006.6	2902.4	2832.4	2898.0	3212.9	3367.4	4149.5	5064.2
42.5°	4013.9	3944.7	3621.0	3551.8	3458.5	3405.3	3346.3	3668.4	3845.5	4617.4	5485.5
45°	4540.1	4423.5	4003.7	3898.7	3877.6	3890.7	3923.5	4280.7	4383.4	5173.5	5905.3
47.5°	4853.6	4761.7	4439.6	4339.0	4333.1	4419.9	4667.7	4972.4	4919.2	5658.2	6274.9
50°	5151.7	5068.6	4801.1	4825.9	4852.8	4970.9	5512.5	5683.7	5408.2	6097.7	6613.8
52.5°	5392.9	5266.1	5126.2	5265.4	5398.0	5588.3	6384.2	6322.2	5755.2	6447.6	6903.9
55°	5532.1	5474.6	5542.3	5682.3	5931.6	6240.6	7207.1	6853.6	6008.8	6766.9	7097.0
57.5°	6042.4	5929.4	6064.2	6185.2	6510.3	6942.5	7911.9	7249.4	6191.8	6964.4	7141.5
60°	6659.7	6568.6	6648.0	6849.2	7288.0	7796.0	8570.8	7572.3	6287.3	7091.2	7026.3
62.5°	7642.2	7522.0	7472.4	7697.6	8279.3	8833.9	9070.8	7796.0	6266.1	7035.1	6631.3
65°	8958.6	8833.9	8612.4	8816.4	9556.2	9947.7	9629.9	7843.4	6120.3	6581.0	5632.7
67.5°	10307.0	10216.6	10027.1	10371.1	11038.8	11164.9	10221.0	7728.2	5650.9	5336.1	3979.6
70°	11197.7	11159.0	11282.2	12043.2	12638.6	12602.2	10763.3	7109.4	4404.6	3281.4	1968.7
72.5°	10555.5	10740.7	11650.3	13030.1	13757.5	13460.1	10484.8	5459.3	2517.5	1262.4	569.2
73°	10023.5	10260.3	11484.8	13067.2	13845.7	13519.9	10250.9	5011.0	2145.8	996.4	431.5
75°	6973.1	7263.9	9508.1	12170.0	13433.1	12881.4	8544.6	3067.1	994.2	441.7	174.2
77.5°	3385.6	3600.6	5235.5	8793.1	10446.9	10064.3	5319.3	1142.9	449.0	276.2	80.2
80°	1263.9	1405.3	2272.6	4475.3	6037.2	6195.4	2339.7	432.2	298.8	222.3	40.8
82.5°	330.9	368.8	838.2	1995.7	3094.1	3238.4	737.6	217.9	218.7	182.9	24.8
85°	105.7	121.0	261.7	895.8	1457.7	1279.9	192.4	105.7	158.9	136.3	13.8
87.5°	13.1	16.8	83.1	210.6	321.4	178.6	29.9	31.3	67.8	75.8	8.0
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°	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7	2562.7
2.5°	2568.5	2564.9	2565.6	2546.7	2534.3	2509.5	2484.0	2472.3	2459.9	2454.8	2459.9
5°	2581.7	2575.1	2556.2	2497.8	2435.9	2355.7	2280.6	2223.8	2152.4	2132.7	2153.1
7.5°	2602.1	2589.0	2533.6	2414.8	2277.0	2123.9	1951.9	1826.6	1723.8	1657.5	1681.5
10°	2632.0	2607.2	2495.7	2293.8	2047.4	1776.3	1532.1	1341.9	1207.0	1151.6	1149.4
12.5°	2682.3	2635.6	2449.0	2136.3	1766.8	1405.3	1085.3	879.0	769.7	699.0	697.5
15°	2737.6	2669.1	2390.0	1947.5	1440.3	1006.6	699.0	542.3	471.6	449.0	446.1
17.5°	2805.4	2707.8	2313.4	1715.0	1098.4	666.9	456.3	411.1	408.2	406.0	406.0
20°	2890.7	2753.7	2215.0	1449.0	779.2	445.3	387.8	390.7	392.1	389.2	389.9
22.5°	2989.8	2800.3	2097.7	1163.3	527.0	372.5	371.0	374.6	376.1	374.6	375.4
25°	3105.0	2854.3	1954.8	863.7	380.5	353.5	357.1	362.2	365.9	365.9	365.9
27.5°	3247.9	2919.9	1782.8	602.8	328.7	333.8	344.0	353.5	358.6	360.1	360.1
30°	3433.7	3001.5	1576.6	413.3	298.8	307.6	326.5	344.8	354.2	355.7	356.4
32.5°	3668.4	3093.3	1337.5	305.4	273.3	279.9	300.3	330.9	349.1	352.0	352.0
35°	3937.4	3199.7	1080.2	266.0	255.1	257.3	273.3	308.3	340.4	348.4	349.1
37.5°	4231.8	3304.7	821.4	248.5	239.8	239.8	251.5	281.3	319.2	344.0	346.9
40°	4506.6	3368.1	575.8	234.7	226.0	226.0	236.2	258.0	293.7	330.9	338.9
42.5°	4760.3	3390.0	400.9	221.6	212.8	215.0	223.8	241.3	268.2	305.4	312.7
45°	5021.2	3386.3	292.3	206.3	199.7	206.3	212.8	226.0	245.6	266.8	268.2
47.5°	5218.0	3355.7	231.8	191.7	187.3	196.1	201.9	210.6	221.6	220.1	220.1
50°	5402.4	3281.4	186.6	172.0	174.9	185.1	188.0	191.0	191.7	177.8	176.4
52.5°	5542.3	3165.5	149.4	150.9	162.5	172.7	169.8	165.5	158.2	141.4	138.5
55°	5589.0	2942.5	117.3	124.6	144.3	157.4	146.5	137.0	123.2	109.3	106.4
57.5°	5504.4	2654.6	95.5	96.9	121.7	132.7	120.3	109.3	94.0	82.4	80.2
60°	5325.1	2334.6	78.7	72.9	94.0	103.5	95.5	84.5	70.7	62.0	61.2
62.5°	4969.5	1993.5	64.9	56.9	71.4	79.4	74.3	66.3	54.7	48.8	48.1
65°	4221.6	1594.8	52.5	45.9	55.4	62.0	57.6	51.7	43.0	38.6	37.9
67.5°	2946.8	1078.0	43.0	37.9	43.7	48.8	45.2	42.3	34.3	33.5	34.3
70°	1421.3	519.7	35.7	30.6	34.3	37.9	36.4	34.3	32.8	37.9	43.7
72.5°	407.4	174.2	28.4	25.5	27.7	29.9	31.3	30.6	35.7	45.9	53.2
73°	313.4	140.7	27.0	24.1	26.2	29.2	30.6	29.9	36.4	46.6	53.2
75°	134.1	67.8	20.4	19.7	21.9	25.5	27.0	27.0	36.4	47.4	51.0
77.5°	60.5	36.4	13.1	15.3	19.0	20.4	22.6	22.6	29.2	36.4	36.4
80°	34.3	19.7	10.2	11.7	13.8	13.8	13.8	12.4	13.1	14.6	16.0
82.5°	21.9	13.1	8.0	9.5	8.7	7.3	5.8	5.8	5.1	5.8	7.3
85°	12.4	7.3	7.3	5.8	3.6	2.9	3.6	2.9	0.7	0.0	0.7
87.5°	7.3	4.4	2.2	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)