

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: P322958

Luminaire Tested: **GAN-SA4B-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16708 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

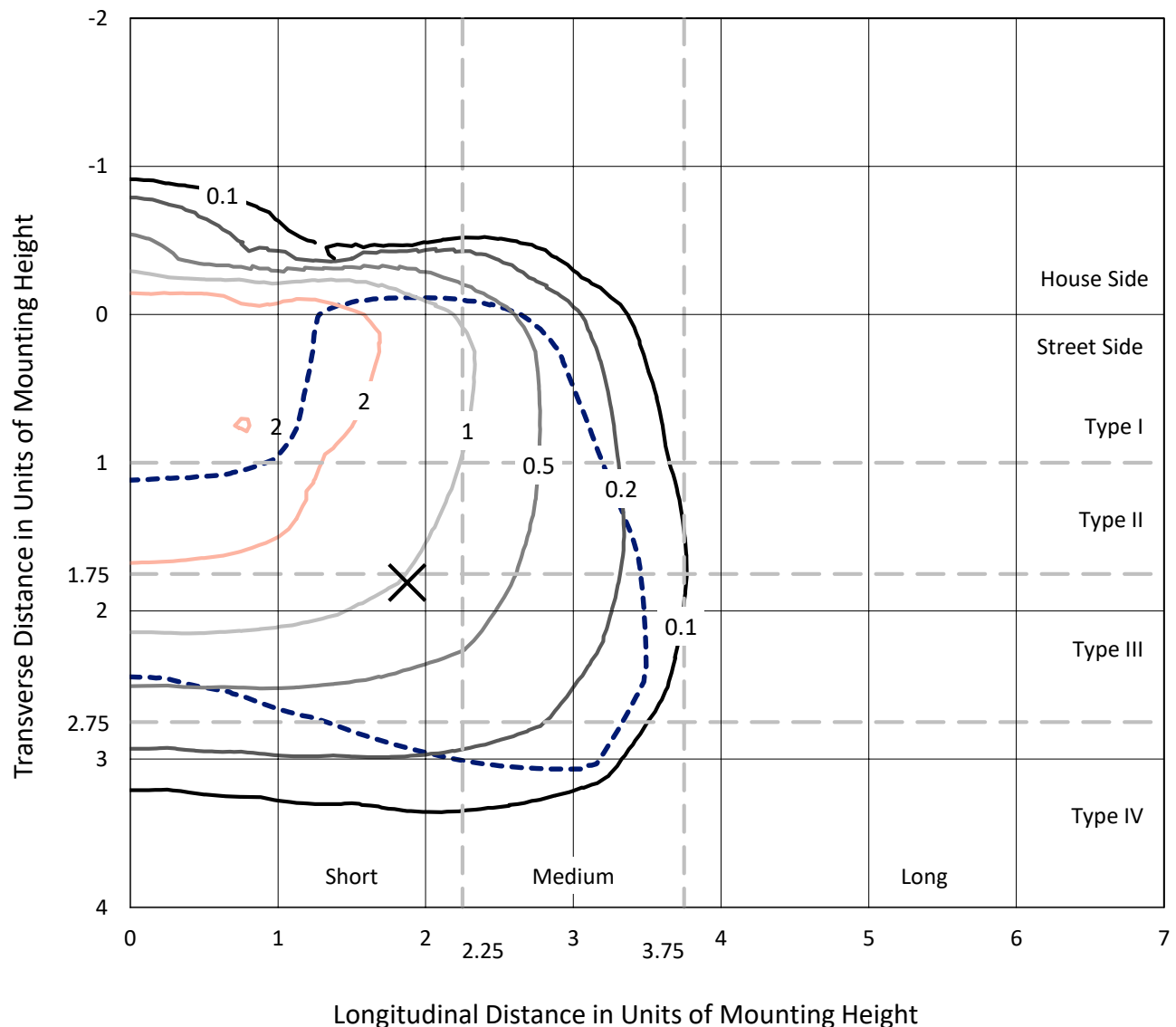
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322958
 CATALOG NUMBER: GAN-SA4B-760-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

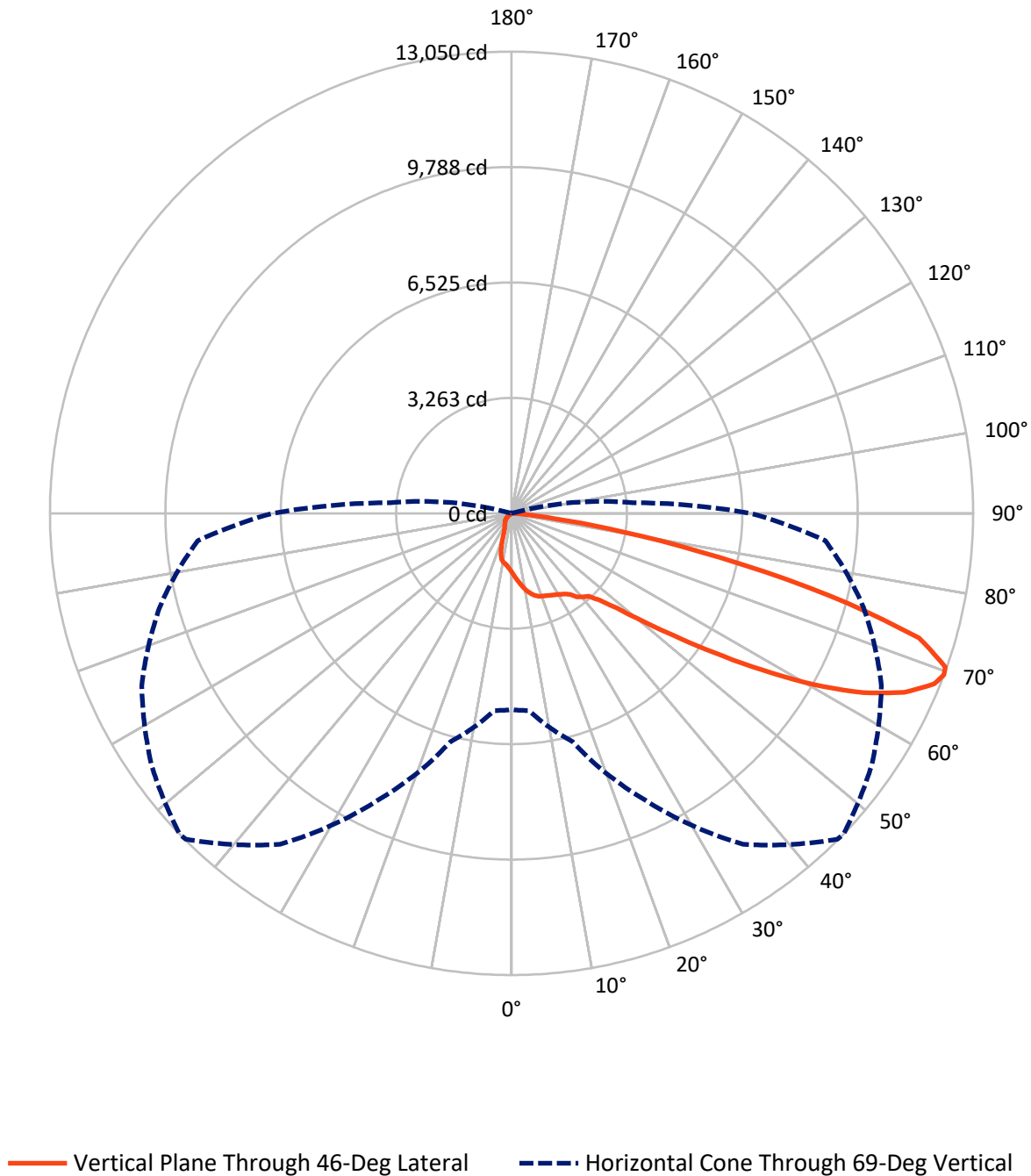
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P322958
CATALOG NUMBER: GAN-SA4B-760-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1714.7	0.0	1714.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14993.3	0.0	14993.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	16708.0	0.0	16708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.0
10°-20°	505.5	3.0
20°-30°	795.0	4.8
30°-40°	1140.0	6.8
40°-50°	1970.4	11.8
50°-60°	3892.7	23.3
60°-70°	5440.4	32.6
70°-80°	2628.3	15.7
80°-90°	168.9	1.0
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°	16708.0	100.0
0°-180°	16708.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322958

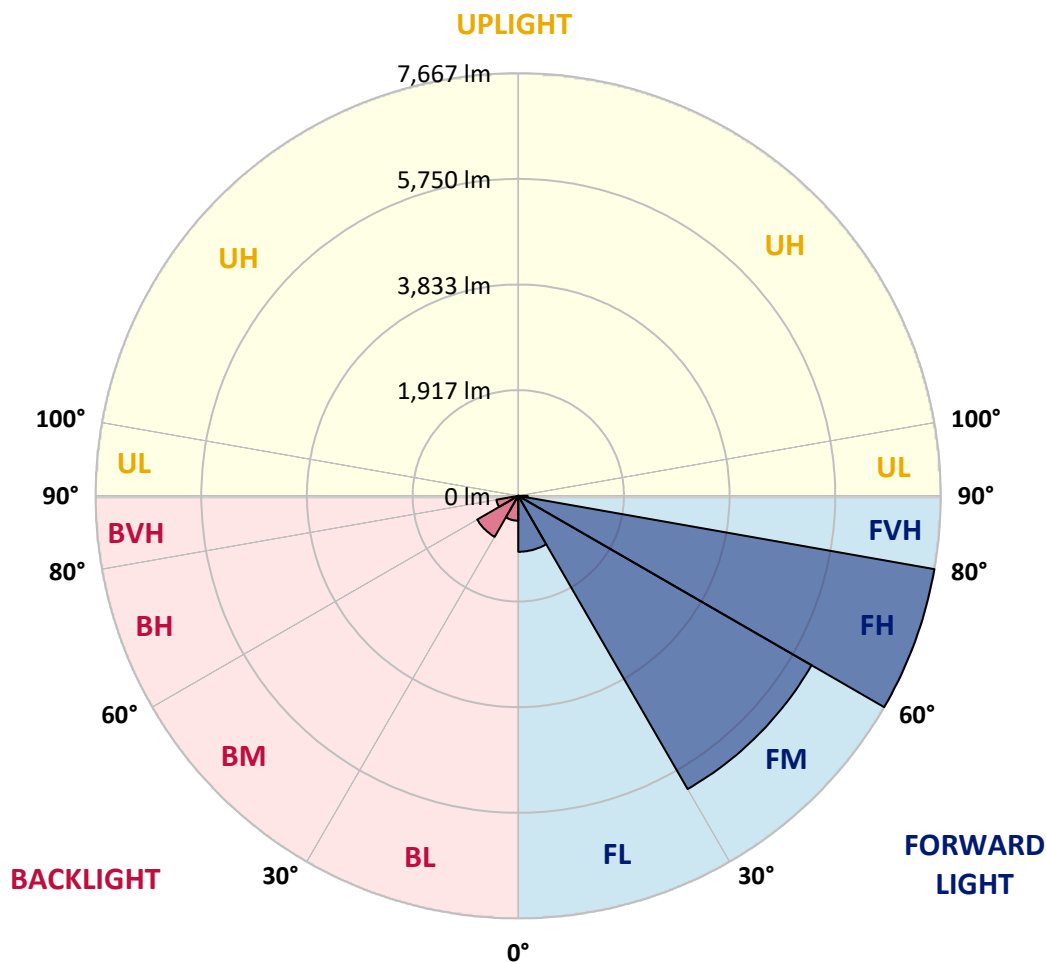
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.2	6.1			
FM	(30°-60°)	6143.9	36.8			
FH	(60°-80°)	7666.7	45.9			G4/12000
FVH	(80°-90°)	167.5	1.0			G2/225
BL	(0°-30°)	451.9	2.7	B1/500		
BM	(30°-60°)	859.3	5.1	B1/1000		
BH	(60°-80°)	402.1	2.4	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G4

Type IV Short



REPORT NUMBER: P322958

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1
2.5°	1859.7	1857.4	1846.4	1841.7	1815.1	1799.4	1793.2	1773.6	1745.4	1717.2	1685.8
5°	2071.3	2070.5	2050.1	2030.5	1980.4	1933.4	1924.8	1879.3	1815.9	1756.3	1696.8
7.5°	2287.5	2277.3	2256.9	2219.3	2146.5	2071.3	2064.2	2000.0	1909.9	1823.7	1738.3
10°	2470.8	2464.5	2437.9	2380.7	2295.3	2209.9	2201.3	2122.2	2020.3	1914.6	1805.7
12.5°	2613.3	2608.6	2573.4	2502.1	2411.2	2322.7	2311.0	2240.5	2131.6	2013.3	1884.8
15°	2700.3	2698.0	2654.9	2578.9	2489.6	2412.8	2402.6	2340.7	2239.7	2115.9	1971.0
17.5°	2720.7	2721.5	2676.8	2600.0	2526.4	2471.6	2463.7	2416.7	2332.1	2209.1	2057.2
20°	2675.2	2684.6	2644.7	2578.1	2532.7	2503.7	2497.4	2469.2	2397.9	2282.0	2126.1
22.5°	2611.0	2615.7	2588.3	2543.6	2524.8	2530.3	2527.2	2511.5	2451.2	2344.7	2194.2
25°	2571.8	2571.8	2555.4	2517.8	2530.3	2564.0	2564.8	2561.6	2513.9	2421.4	2277.3
27.5°	2570.3	2565.6	2546.8	2518.6	2553.0	2604.7	2607.9	2629.0	2599.2	2514.6	2380.7
30°	2632.9	2627.5	2587.5	2550.7	2594.5	2650.2	2658.0	2704.2	2689.3	2615.7	2495.8
32.5°	2779.4	2759.8	2671.3	2611.0	2643.9	2710.5	2720.7	2794.3	2817.8	2740.3	2607.1
35°	2980.0	2918.1	2790.4	2725.4	2728.5	2798.2	2807.6	2915.7	2985.5	2854.6	2693.3
37.5°	3256.5	3226.0	3018.4	2844.4	2858.5	2964.3	2991.7	3109.2	3089.6	2917.3	2791.2
40°	3862.8	3815.1	3594.1	3178.2	2983.1	3099.0	3107.7	3170.3	3171.9	3059.1	2994.9
42.5°	4688.5	4668.9	4436.3	3783.7	3228.3	3189.1	3204.8	3310.6	3428.8	3358.3	3355.2
45°	5602.7	5592.5	5345.8	4587.5	3724.2	3484.5	3504.1	3645.8	3872.2	3887.9	3987.4
47.5°	6338.3	6333.6	6191.8	5484.4	4483.3	3985.0	3991.3	4141.7	4539.7	4736.3	4895.3
50°	7008.9	7031.6	6919.6	6455.0	5517.3	4769.2	4754.3	4854.6	5493.8	5815.8	6013.2
52.5°	7941.1	7973.2	7659.1	7360.6	6602.3	5742.2	5730.4	5835.4	6640.7	6882.0	6917.2
55°	8764.4	8709.6	8461.3	8375.1	7925.4	6943.9	6940.7	7033.2	7750.0	7852.6	7917.6
57.5°	9127.9	9106.8	9226.6	9424.0	9311.2	8364.1	8357.1	8286.6	8742.5	8753.5	8953.2
60°	9357.5	9383.3	9750.7	10359.4	10640.6	9892.5	9847.1	9417.0	9690.4	9666.1	9880.0
62.5°	9185.1	9236.0	9897.2	10911.7	11635.5	11226.6	11162.4	10452.6	10500.4	10416.6	10615.6
65°	8270.1	8349.2	9432.7	10807.5	12129.0	12269.3	12204.2	11366.8	11143.6	11005.7	10895.2
67.5°	6715.1	6762.1	7893.3	9901.1	11906.6	12891.3	12878.0	12168.2	11629.2	10906.2	10049.2
69°	5549.5	5595.7	6684.6	8947.0	11417.0	13024.4	13050.3	12425.2	11536.8	10301.4	8903.9
70°	4700.3	4749.6	5764.1	8129.1	10849.0	12962.6	13008.8	12400.9	11272.0	9601.1	7898.8
72.5°	2465.3	2507.6	3548.7	5600.4	8844.3	11902.6	12042.9	11352.7	9554.9	6972.8	4670.5
75°	774.8	799.0	1385.8	2927.5	6055.5	9254.8	9286.9	8905.4	6784.8	3835.4	1945.1
77.5°	295.3	288.3	461.4	1078.7	3061.4	5827.6	6024.2	5565.1	3560.5	1356.0	448.9
80°	159.0	159.8	239.7	446.5	1309.8	2994.9	3160.9	2697.2	1265.2	423.0	103.4
82.5°	68.9	72.1	134.7	236.6	601.6	1104.6	1187.6	988.6	483.3	284.4	38.4
85°	14.9	16.5	65.0	128.5	245.2	310.2	325.1	320.4	307.9	220.9	14.9
87.5°	0.0	0.0	29.0	46.2	61.9	70.5	61.9	80.7	170.0	148.8	7.8
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: P322958

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1	1674.1
2.5°	1675.6	1661.5	1637.3	1610.6	1591.8	1572.2	1556.6	1549.5	1541.7	1536.2	1543.3
5°	1672.5	1645.1	1598.1	1552.7	1519.8	1493.1	1471.2	1462.6	1453.9	1447.7	1446.9
7.5°	1699.9	1661.5	1589.5	1522.9	1472.0	1435.9	1406.2	1393.6	1383.4	1378.7	1374.8
10°	1752.4	1703.1	1606.7	1519.8	1453.9	1392.8	1328.6	1279.3	1247.1	1232.3	1226.8
12.5°	1820.6	1758.7	1639.6	1536.2	1440.6	1323.1	1186.8	1069.3	993.3	968.3	953.4
15°	1900.5	1823.7	1682.7	1557.4	1392.1	1177.4	946.3	792.8	722.3	708.2	692.5
17.5°	1977.2	1892.6	1734.4	1561.3	1285.5	940.8	693.3	589.1	561.7	571.1	573.4
20°	2044.6	1960.8	1785.3	1526.8	1092.0	705.8	536.6	510.8	520.9	539.0	542.1
22.5°	2112.8	2026.6	1832.3	1435.9	844.5	535.8	483.3	489.6	499.8	517.8	520.9
25°	2195.8	2106.5	1876.2	1269.1	633.8	455.9	459.1	468.5	478.6	495.1	496.7
27.5°	2291.4	2207.6	1905.2	1052.1	470.0	419.1	429.3	443.4	453.6	469.2	472.4
30°	2418.3	2340.7	1914.6	827.2	394.0	386.2	390.9	408.1	423.0	437.1	439.5
32.5°	2537.4	2472.3	1883.2	624.4	365.1	355.7	355.7	365.8	383.1	396.4	399.5
35°	2647.0	2604.7	1783.0	456.7	343.1	327.5	319.6	319.6	330.6	341.6	344.7
37.5°	2792.0	2790.4	1620.8	364.3	322.0	304.0	287.5	275.0	271.0	273.4	275.0
40°	3040.3	3042.6	1409.3	326.7	304.0	279.7	254.6	231.9	210.7	203.7	202.9
42.5°	3428.1	3392.8	1187.6	308.7	288.3	254.6	217.0	186.4	153.5	143.4	142.6
45°	4043.8	3834.6	952.6	292.2	271.8	226.4	179.4	137.9	111.2	103.4	103.4
47.5°	4940.8	4415.1	737.9	274.2	249.9	194.3	135.5	99.5	81.5	77.6	78.3
50°	5868.3	4983.9	565.6	251.5	223.3	160.6	100.3	72.1	61.9	61.9	62.7
52.5°	6690.8	5400.6	441.0	227.2	190.4	126.1	76.0	56.4	51.7	50.9	51.7
55°	7460.9	5669.3	337.6	199.0	151.2	94.0	58.0	46.2	43.1	41.5	40.7
57.5°	8203.5	5802.5	253.0	160.6	109.7	68.2	46.2	39.2	36.0	33.7	32.9
60°	8697.8	5694.4	173.9	118.3	76.0	49.4	38.4	33.7	29.8	27.4	26.6
62.5°	8976.7	5399.0	112.0	85.4	54.1	36.8	30.6	28.2	22.7	20.4	20.4
65°	8863.9	4911.8	78.3	61.1	39.2	27.4	22.7	22.7	16.5	13.3	12.5
67.5°	7854.9	4149.6	59.5	45.4	28.2	20.4	17.2	19.6	10.2	6.3	6.3
69°	6758.2	3439.0	50.9	37.6	23.5	16.5	14.9	18.0	7.1	4.7	3.9
70°	5873.8	2966.7	46.2	32.9	19.6	14.1	13.3	17.2	7.1	3.9	3.1
72.5°	3514.2	1654.5	35.3	23.5	12.5	11.0	11.0	19.6	7.1	3.9	3.1
75°	1420.3	582.8	25.9	16.5	9.4	9.4	13.3	25.1	6.3	3.1	2.4
77.5°	322.0	127.7	14.9	10.2	6.3	9.4	15.7	19.6	3.9	1.6	0.0
80°	78.3	31.3	9.4	6.3	3.9	7.1	11.8	11.0	0.8	0.0	0.0
82.5°	25.9	11.0	3.9	3.1	0.8	2.4	5.5	3.1	0.0	0.0	0.0
85°	11.0	6.3	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.1	2.4	0.0	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)