

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: P322093

Luminaire Tested: **GAN-SA9C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35746 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 501
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

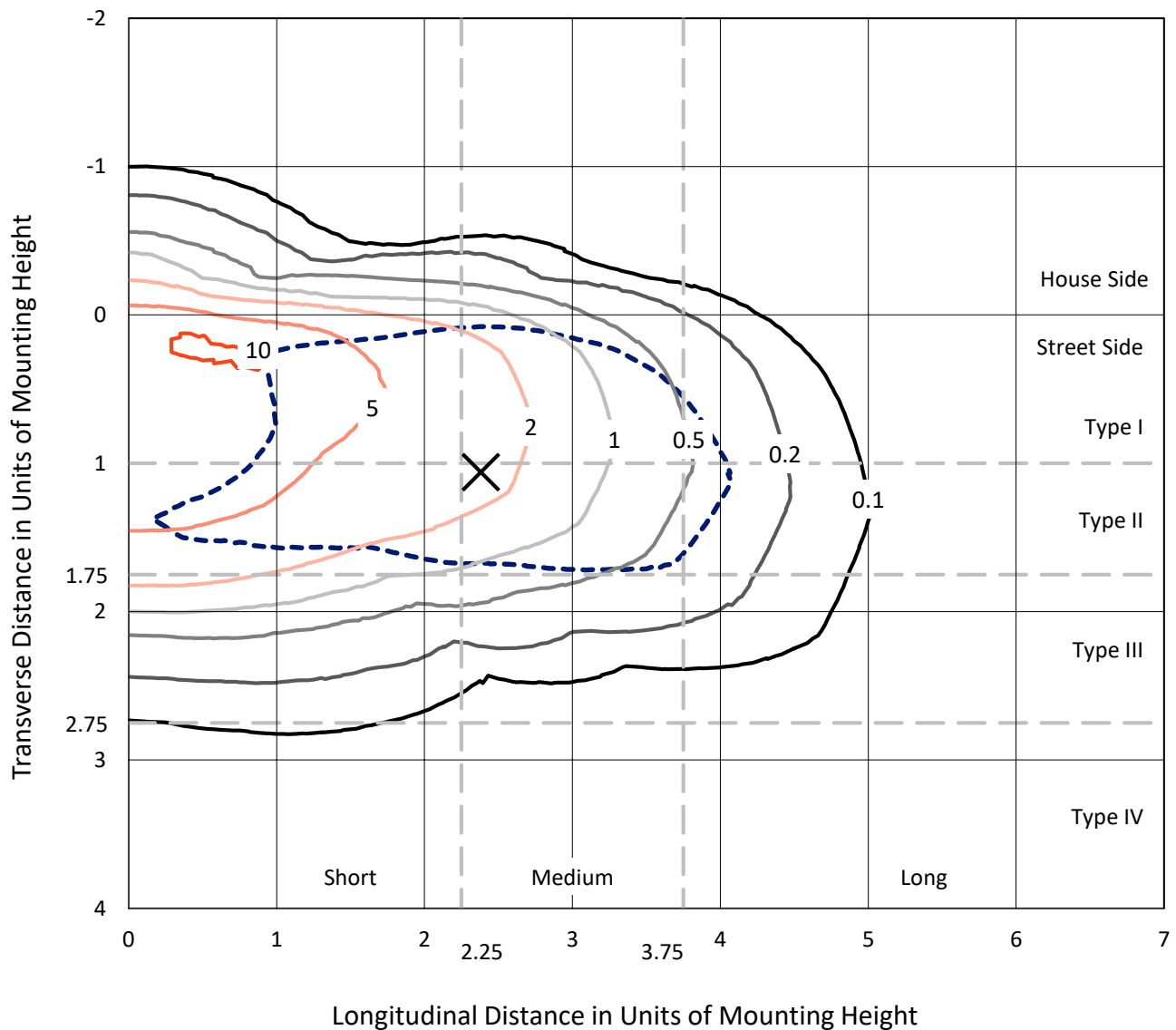


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Iso-Footcandle Lines of Horizontal Illumination

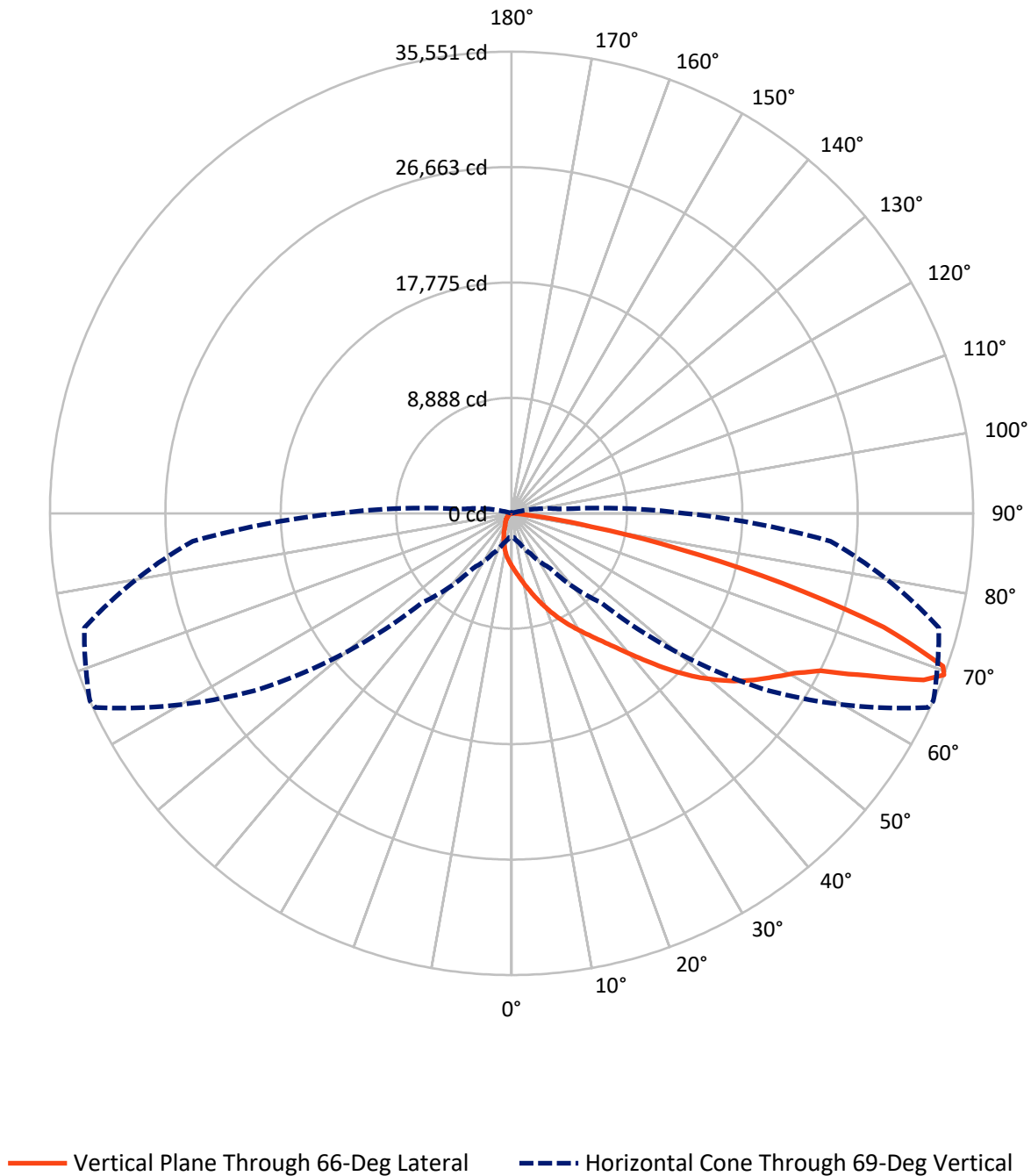
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2144.3	0.0	2144.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	33601.7	0.0	33601.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	35746.0	0.0	35746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	1.1
10°-20°	1170.3	3.3
20°-30°	2038.0	5.7
30°-40°	3575.6	10.0
40°-50°	5985.0	16.7
50°-60°	8797.3	24.6
60°-70°	9032.6	25.3
70°-80°	4459.2	12.5
80°-90°	294.8	0.8
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°	35746.0	100.0
0°-180°	35746.0	100.0

Coefficient of Utilization



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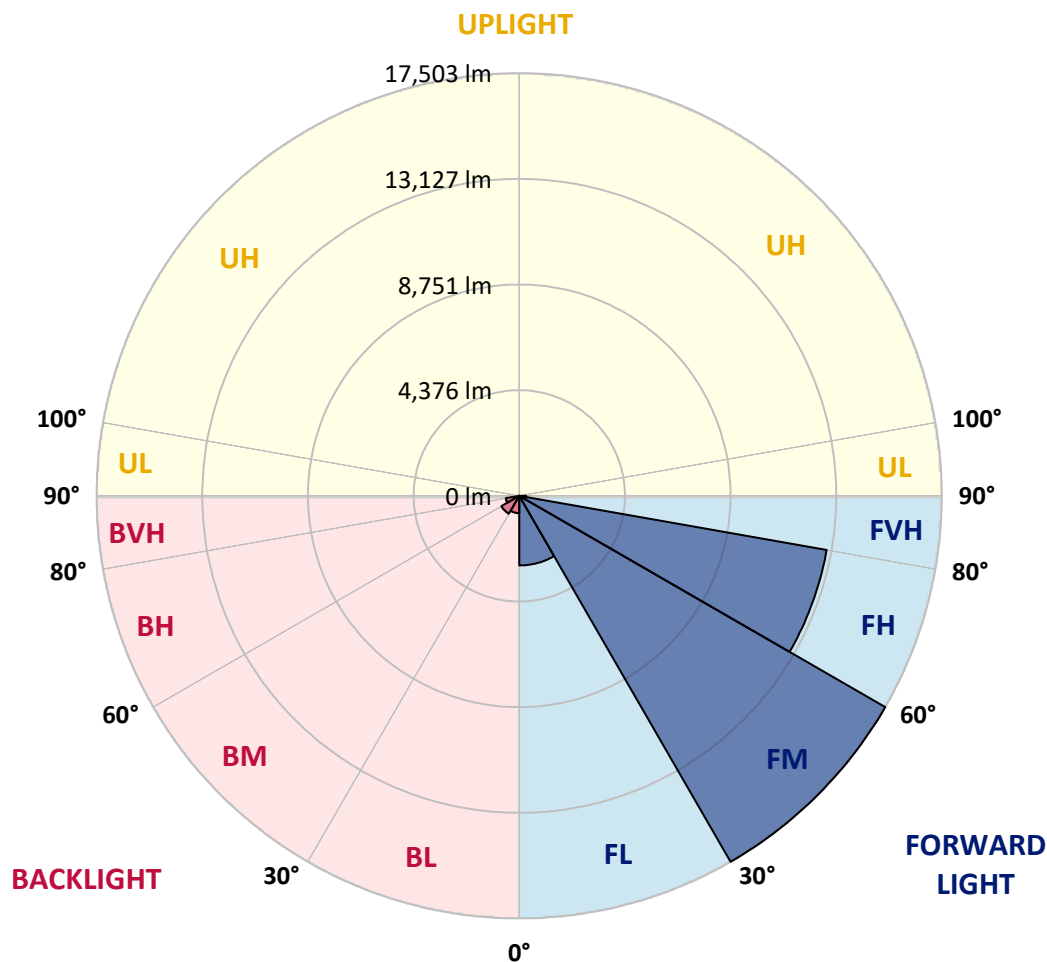
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2884.4	8.1			
FM	(30°-60°)	17502.9	49.0			
FH	(60°-80°)	12926.7	36.2			G5
FVH	(80°-90°)	287.7	0.8			G3/500
BL	(0°-30°)	717.1	2.0	B2/1000		
BM	(30°-60°)	854.9	2.4	B1/1000		
BH	(60°-80°)	565.1	1.6	B2/1000		G2/1000
BVH	(80°-90°)	7.1	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0
2.5°	4787.9	4767.5	4759.0	4721.7	4657.2	4607.9	4512.8	4402.5	4382.1	4275.1	4144.4
5°	5409.3	5392.3	5380.4	5327.8	5261.6	5137.6	4964.5	4759.0	4720.0	4516.2	4254.8
7.5°	5842.2	5872.8	5872.8	5838.9	5755.7	5662.3	5450.0	5169.9	5120.7	4808.3	4402.5
10°	6095.2	6132.6	6161.4	6190.3	6178.4	6141.1	5940.7	5624.9	5565.5	5151.2	4574.0
12.5°	6119.0	6156.3	6237.8	6358.4	6475.5	6560.4	6434.8	6129.2	6061.3	5548.5	4777.7
15°	5986.6	6025.6	6151.3	6385.6	6669.1	6917.0	6957.7	6687.8	6618.2	6022.2	5032.4
17.5°	5755.7	5781.1	5961.1	6285.4	6730.2	7185.2	7431.4	7287.1	7222.6	6563.8	5315.9
20°	5584.2	5602.9	5760.7	6108.8	6692.9	7353.3	7879.6	7923.8	7855.9	7144.5	5623.2
22.5°	5877.9	5911.9	5917.0	6081.6	6591.0	7436.5	8273.5	8550.3	8499.4	7760.8	5925.4
25°	6681.0	6720.0	6591.0	6489.1	6677.6	7473.9	8611.4	9192.1	9151.3	8424.7	6229.4
27.5°	7742.1	7782.9	7616.5	7312.6	7130.9	7614.8	8911.9	9844.0	9842.3	9127.6	6557.0
30°	8784.6	8825.3	8655.6	8351.6	7934.0	8013.8	9171.7	10526.6	10536.8	9852.5	6905.1
32.5°	9878.0	9928.9	9754.1	9363.6	8927.2	8703.1	9536.7	11212.5	11270.2	10693.0	7297.3
35°	11120.8	11127.6	10881.4	10472.2	9969.7	9625.0	10122.5	11981.6	12119.1	11733.7	7794.8
37.5°	12339.9	12389.1	12187.1	11541.9	11080.1	10689.6	10993.5	12942.6	13137.8	13005.4	8445.0
40°	13243.1	13346.7	13317.8	12621.7	12183.7	11905.2	12075.0	14085.2	14333.1	14485.9	9265.1
42.5°	13810.2	13888.3	14020.7	13601.3	13204.1	13249.9	13351.8	15416.3	15721.9	16173.6	10207.4
45°	14460.4	14497.8	14608.2	14423.1	14154.8	14616.7	14706.6	16915.5	17236.4	17988.5	11253.2
47.5°	15255.0	15343.3	15373.9	15204.1	15081.9	15825.5	16012.3	18278.9	18728.8	19932.6	12360.2
50°	16266.9	16290.7	16343.3	16233.0	16110.7	16864.6	17183.8	19710.2	20119.3	21883.4	13451.9
52.5°	17256.8	17341.7	17525.0	17455.4	17406.2	17749.2	18227.9	21000.5	21457.2	23509.9	14541.9
55°	17542.0	17615.0	18248.3	18681.3	19082.0	18839.2	19226.3	22156.7	22650.8	24963.2	15591.2
57.5°	16402.8	16550.5	17647.3	18774.6	20436.8	20533.6	20598.1	23343.5	23786.7	26077.0	16682.9
60°	13523.2	13552.1	15351.8	17285.6	20212.7	22012.4	22601.6	24618.6	24990.4	27114.4	17990.2
62.5°	8601.2	8895.0	10869.5	13599.6	17842.5	21798.5	25024.4	26547.3	26683.2	28358.9	19864.7
65°	4096.9	4287.0	5709.8	8402.6	12923.9	19059.9	26696.7	30036.4	30097.5	30825.9	22369.0
67.5°	2268.3	2360.0	3037.4	4523.0	7555.4	13479.1	26021.0	34168.9	34226.6	33345.5	24566.0
69°	1774.2	1852.3	2385.5	3409.3	5122.4	9687.8	23547.3	35379.5	35550.9	34067.0	24644.1
70°	1506.0	1582.4	2054.4	2879.5	4118.9	7485.7	20959.8	35078.9	35260.6	33999.1	24061.7
72.5°	921.9	966.1	1368.5	2027.2	2760.7	3765.8	12925.6	29666.2	29973.6	31187.5	20679.6
75°	621.4	645.2	855.7	1399.0	1974.6	1938.9	6714.9	20910.5	21576.1	24260.3	15273.7
77.5°	444.8	466.9	573.9	904.9	1383.7	1280.2	3040.8	12995.2	13137.8	14550.4	8329.6
80°	253.0	273.4	405.8	538.2	938.9	854.0	1208.9	6207.3	6278.6	6239.5	2781.1
82.5°	132.4	149.4	222.4	354.8	602.7	558.6	502.6	2078.1	2088.3	1736.9	609.5
85°	25.5	30.6	110.4	242.8	310.7	242.8	205.4	487.3	497.5	439.7	151.1
87.5°	0.0	1.7	44.1	54.3	61.1	62.8	66.2	95.1	101.9	137.5	40.7
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°	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0	4068.0
2.5°	4086.7	4025.6	3908.4	3772.6	3667.3	3563.8	3482.3	3397.4	3366.8	3351.5	3349.8
5°	4127.4	3998.4	3750.5	3495.8	3287.0	3090.1	2949.1	2815.0	2752.2	2723.3	2711.4
7.5°	4195.3	3988.2	3589.2	3200.4	2899.9	2653.7	2458.5	2312.4	2239.4	2208.9	2197.0
10°	4275.1	3974.6	3400.8	2888.0	2504.3	2249.6	2056.1	1911.8	1832.0	1798.0	1781.0
12.5°	4368.5	3950.9	3183.4	2572.2	2166.4	1911.8	1677.5	1499.2	1407.5	1368.5	1349.8
15°	4484.0	3927.1	2955.9	2275.1	1869.3	1558.6	1302.2	1181.7	1163.0	1156.2	1157.9
17.5°	4597.7	3889.7	2708.0	1981.4	1556.9	1217.3	1086.6	1079.8	1083.2	1083.2	1083.2
20°	4699.6	3804.8	2438.1	1730.1	1259.8	1027.2	1000.0	988.1	979.7	972.9	964.4
22.5°	4779.4	3691.1	2178.3	1480.5	1028.9	940.6	898.2	860.8	830.2	809.9	799.7
25°	4833.7	3540.0	1940.6	1241.1	925.3	855.7	779.3	716.5	668.9	640.1	628.2
27.5°	4874.5	3377.0	1728.4	1039.1	854.0	757.2	657.1	582.4	533.1	507.7	497.5
30°	4903.3	3191.9	1541.6	913.4	774.2	653.7	546.7	473.7	438.0	424.5	417.7
32.5°	4930.5	2986.5	1365.1	854.0	699.5	558.6	458.4	402.4	380.3	363.3	358.2
35°	4998.4	2796.3	1197.0	791.2	623.1	477.1	393.9	353.1	331.1	320.9	317.5
37.5°	5159.7	2655.4	1035.7	726.7	546.7	412.6	344.7	315.8	295.4	285.2	281.8
40°	5419.5	2584.1	899.9	657.1	472.0	363.3	312.4	285.2	263.2	247.9	244.5
42.5°	5801.5	2594.3	804.8	587.5	412.6	324.3	281.8	249.6	225.8	212.2	208.8
45°	6265.0	2669.0	738.6	519.5	363.3	293.7	247.9	213.9	191.9	180.0	176.6
47.5°	6767.6	2789.5	684.2	458.4	324.3	264.9	213.9	178.3	159.6	149.4	147.7
50°	7297.3	2906.7	628.2	399.0	290.3	236.0	180.0	147.7	132.4	123.9	120.5
52.5°	7833.8	3042.5	577.3	344.7	261.5	202.0	149.4	120.5	108.7	101.9	98.5
55°	8411.1	3144.4	528.0	302.2	232.6	171.5	123.9	100.2	90.0	81.5	79.8
57.5°	9090.2	3302.3	477.1	261.5	198.6	142.6	101.9	79.8	71.3	62.8	61.1
60°	10007.0	3487.4	422.8	230.9	163.0	117.2	83.2	64.5	54.3	47.5	45.8
62.5°	11215.9	3692.8	354.8	202.0	132.4	95.1	66.2	50.9	39.1	30.6	30.6
65°	12749.0	4027.3	290.3	169.8	108.7	78.1	50.9	37.4	22.1	13.6	13.6
67.5°	13643.8	4085.0	234.3	139.2	88.3	66.2	42.4	25.5	6.8	1.7	0.0
69°	13356.9	3750.5	198.6	118.8	76.4	62.8	39.1	18.7	3.4	0.0	0.0
70°	12816.9	3429.6	174.9	105.3	69.6	59.4	37.4	13.6	3.4	0.0	0.0
72.5°	10591.1	2441.5	132.4	78.1	50.9	52.6	34.0	8.5	3.4	0.0	0.0
75°	7715.0	1483.9	95.1	54.3	32.3	39.1	23.8	3.4	1.7	0.0	0.0
77.5°	4292.1	699.5	59.4	30.6	20.4	23.8	11.9	0.0	0.0	0.0	0.0
80°	1393.9	190.2	27.2	17.0	11.9	13.6	5.1	0.0	0.0	0.0	0.0
82.5°	258.1	54.3	15.3	8.5	3.4	3.4	0.0	0.0	0.0	0.0	0.0
85°	56.0	22.1	8.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	6.8	1.7	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)