

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: P322008

Luminaire Tested: **GAN-SA4C-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322008
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-SA4C-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 20297 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

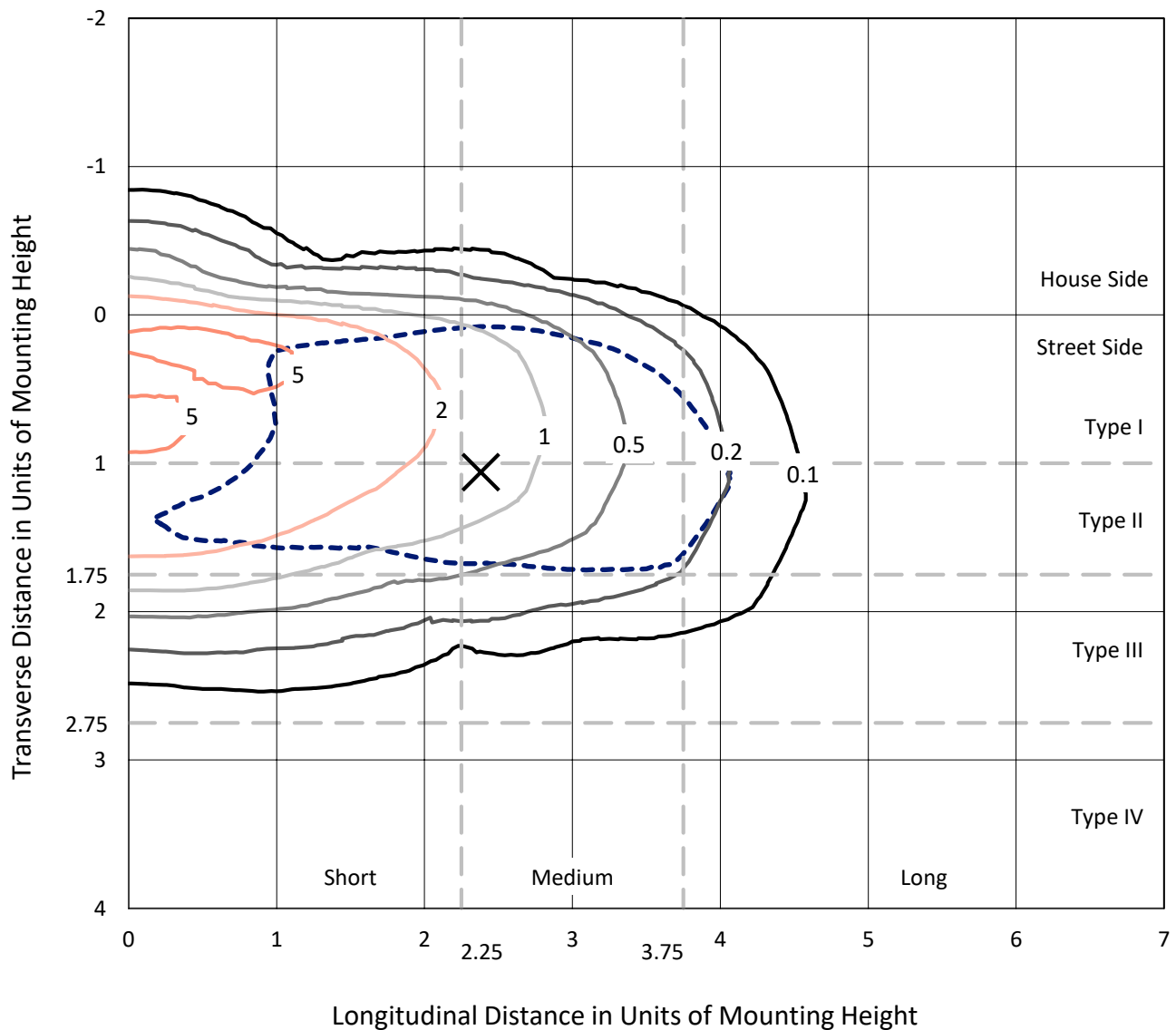


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Iso-Footcandle Lines of Horizontal Illumination

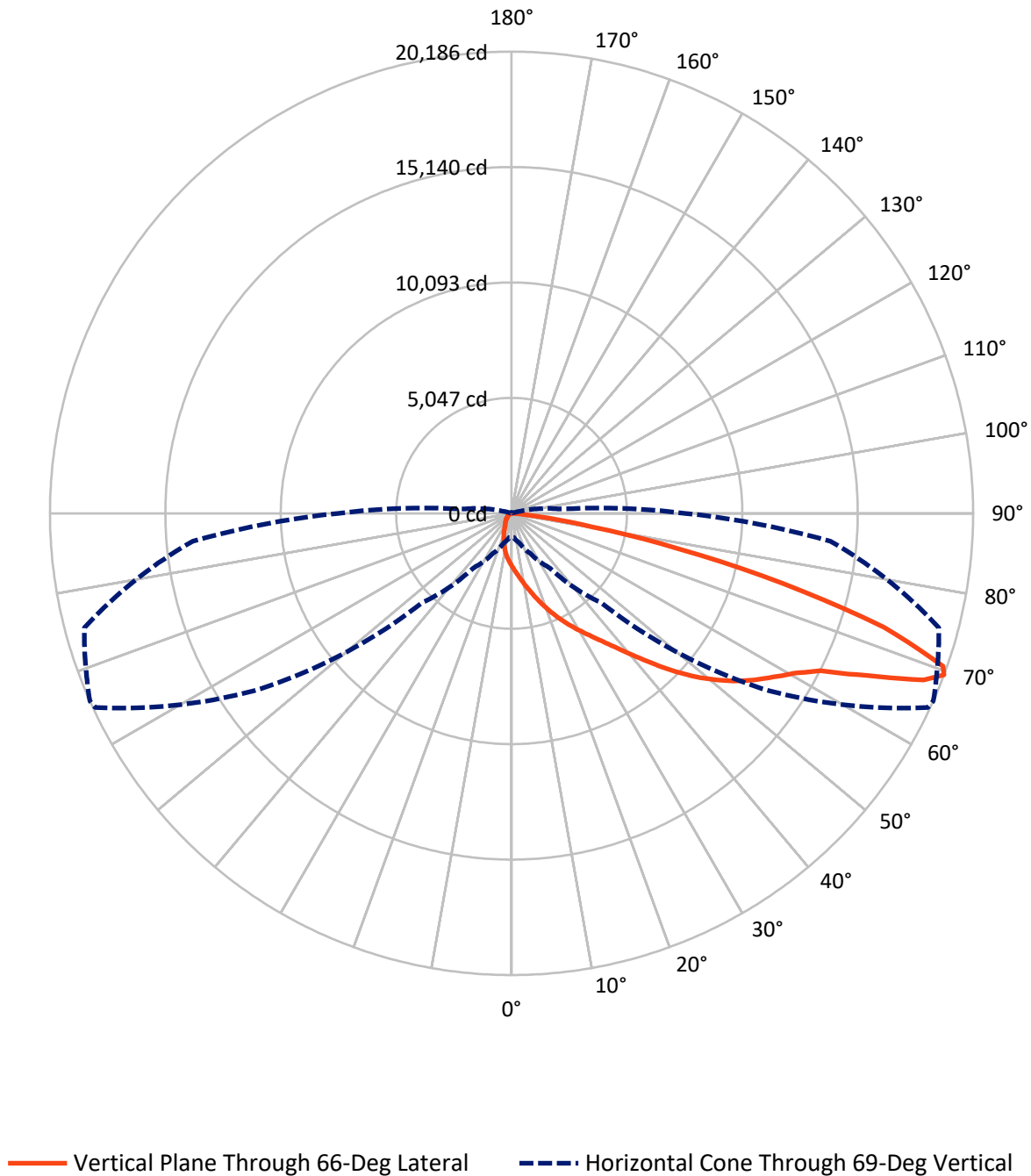
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1217.5	0.0	1217.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	19079.5	0.0	19079.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	20297.0	0.0	20297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.1
10°-20°	664.5	3.3
20°-30°	1157.2	5.7
30°-40°	2030.3	10.0
40°-50°	3398.3	16.7
50°-60°	4995.2	24.6
60°-70°	5128.8	25.3
70°-80°	2532.0	12.5
80°-90°	167.4	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°	20297.0	100.0
0°-180°	20297.0	100.0

Coefficient of Utilization



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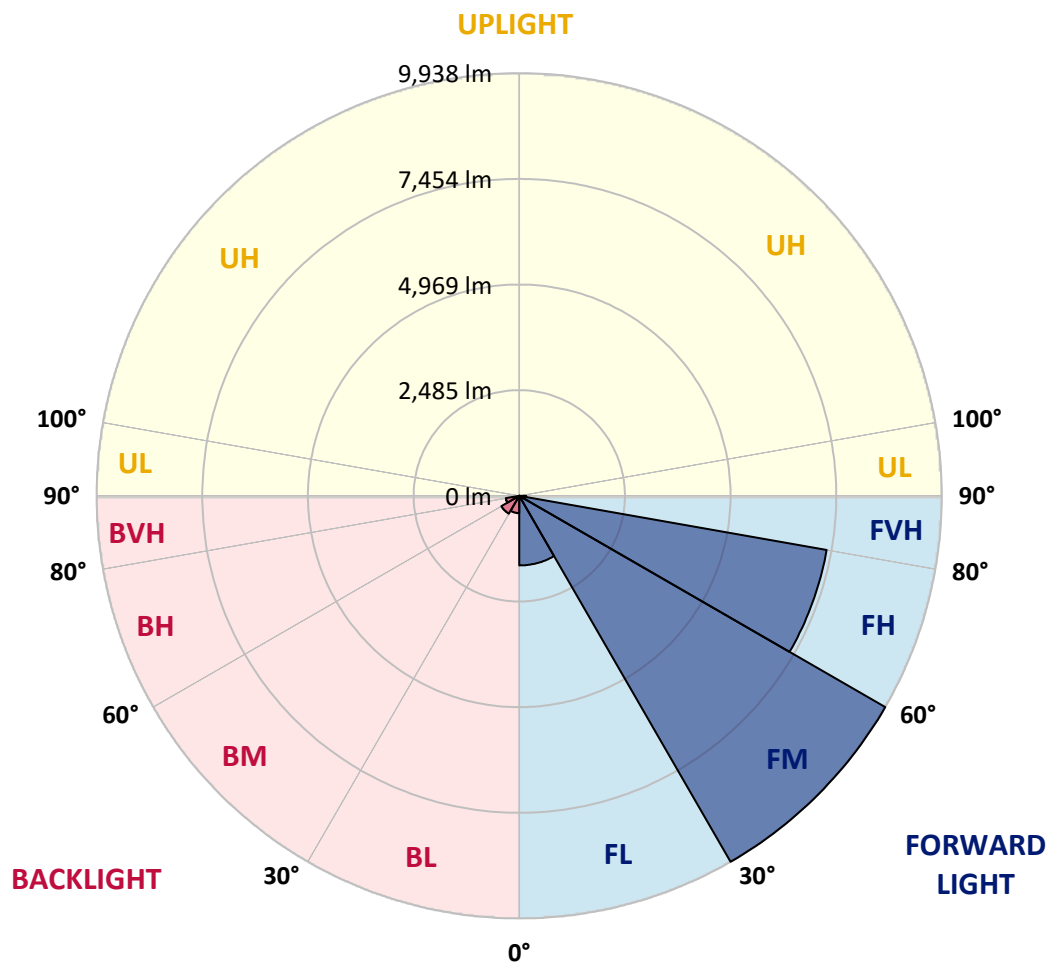
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.8	8.1			
FM	(30°-60°)	9938.4	49.0			
FH	(60°-80°)	7339.9	36.2			G3/7500
FVH	(80°-90°)	163.4	0.8			G2/225
BL	(0°-30°)	407.2	2.0	B1/500		
BM	(30°-60°)	485.4	2.4	B1/1000		
BH	(60°-80°)	320.9	1.6	B1/500		G1/500
BVH	(80°-90°)	4.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9
2.5°	2718.6	2707.1	2702.2	2681.0	2644.4	2616.4	2562.4	2499.8	2488.2	2427.5	2353.2
5°	3071.5	3061.8	3055.1	3025.2	2987.6	2917.2	2818.9	2702.2	2680.1	2564.4	2415.9
7.5°	3317.3	3334.6	3334.6	3315.4	3268.1	3215.1	3094.6	2935.5	2907.6	2730.2	2499.8
10°	3460.9	3482.1	3498.5	3514.9	3508.2	3487.0	3373.2	3193.9	3160.2	2924.9	2597.2
12.5°	3474.4	3495.6	3541.9	3610.4	3676.9	3725.1	3653.7	3480.2	3441.7	3150.5	2712.8
15°	3399.2	3421.4	3492.8	3625.8	3786.8	3927.5	3950.7	3797.4	3757.9	3419.5	2857.4
17.5°	3268.1	3282.6	3384.8	3568.9	3821.5	4079.9	4219.6	4137.7	4101.1	3727.0	3018.4
20°	3170.8	3181.4	3271.0	3468.7	3800.3	4175.3	4474.2	4499.2	4460.7	4056.7	3192.9
22.5°	3337.5	3356.8	3359.7	3453.2	3742.4	4222.5	4697.8	4855.0	4826.0	4406.7	3364.5
25°	3793.5	3815.7	3742.4	3684.6	3791.6	4243.7	4889.7	5219.4	5196.2	4783.6	3537.1
27.5°	4396.1	4419.2	4324.7	4152.2	4049.0	4323.8	5060.3	5589.6	5588.6	5182.7	3723.2
30°	4988.0	5011.1	4914.7	4742.2	4505.0	4550.3	5207.8	5977.1	5982.9	5594.4	3920.8
32.5°	5608.8	5637.8	5538.5	5316.7	5069.0	4941.7	5415.1	6366.6	6399.4	6071.6	4143.5
35°	6314.5	6318.4	6178.6	5946.3	5660.9	5465.2	5747.7	6803.3	6881.4	6662.5	4426.0
37.5°	7006.7	7034.7	6920.0	6553.6	6291.4	6069.7	6242.2	7349.0	7459.8	7384.6	4795.2
40°	7519.6	7578.4	7562.0	7166.7	6918.0	6759.9	6856.3	7997.8	8138.5	8225.3	5260.8
42.5°	7841.6	7885.9	7961.1	7723.0	7497.4	7523.4	7581.3	8753.6	8927.1	9183.5	5795.9
45°	8210.8	8232.0	8294.7	8189.6	8037.3	8299.5	8350.6	9604.8	9787.0	10214.1	6389.7
47.5°	8662.0	8712.1	8729.5	8633.1	8563.7	8985.9	9092.0	10379.0	10634.4	11317.9	7018.3
50°	9236.6	9250.1	9279.9	9217.3	9147.9	9575.9	9757.1	11191.7	11424.0	12425.6	7638.2
52.5°	9798.6	9846.8	9950.9	9911.4	9883.4	10078.2	10350.0	11924.3	12183.7	13349.2	8257.1
55°	9960.6	10002.0	10361.6	10607.4	10835.0	10697.1	10916.9	12580.9	12861.4	14174.4	8852.9
57.5°	9313.7	9397.6	10020.3	10660.5	11604.3	11659.2	11695.9	13254.7	13506.3	14806.8	9472.8
60°	7678.7	7695.0	8716.9	9815.0	11477.0	12498.9	12833.4	13978.7	14189.9	15395.9	10215.1
62.5°	4883.9	5050.7	6171.8	7722.0	10131.2	12377.4	14209.1	15073.9	15151.0	16102.5	11279.4
65°	2326.3	2434.2	3242.1	4771.1	7338.3	10822.4	15158.7	17055.0	17089.7	17503.3	12701.4
67.5°	1288.0	1340.0	1724.7	2568.2	4290.0	7653.6	14775.0	19401.5	19434.3	18933.9	13948.8
69°	1007.4	1051.8	1354.5	1935.8	2908.5	5500.9	13370.4	20088.9	20186.2	19343.7	13993.2
70°	855.1	898.5	1166.5	1635.0	2338.8	4250.5	11901.2	19918.2	20021.4	19305.1	13662.5
72.5°	523.5	548.5	777.0	1151.1	1567.5	2138.3	7339.3	16844.8	17019.3	17708.6	11742.1
75°	352.8	366.3	485.9	794.4	1121.2	1100.9	3812.8	11873.2	12251.1	13775.3	8672.6
77.5°	252.6	265.1	325.8	513.8	785.7	726.9	1726.6	7378.8	7459.8	8261.9	4729.6
80°	143.6	155.2	230.4	305.6	533.1	484.9	686.4	3524.6	3565.1	3542.9	1579.1
82.5°	75.2	84.8	126.3	201.5	342.2	317.2	285.4	1180.0	1185.8	986.2	346.1
85°	14.5	17.4	62.7	137.9	176.4	137.9	116.7	276.7	282.5	249.7	85.8
87.5°	0.0	1.0	25.1	30.8	34.7	35.7	37.6	54.0	57.8	78.1	23.1
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°	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9	2309.9
2.5°	2320.5	2285.8	2219.2	2142.1	2082.3	2023.5	1977.3	1929.1	1911.7	1903.0	1902.1
5°	2343.6	2270.3	2129.6	1985.0	1866.4	1754.6	1674.6	1598.4	1562.7	1546.3	1539.6
7.5°	2382.2	2264.6	2038.0	1817.2	1646.6	1506.8	1395.9	1313.0	1271.6	1254.2	1247.5
10°	2427.5	2256.8	1931.0	1639.8	1422.0	1277.4	1167.5	1085.5	1040.2	1020.9	1011.3
12.5°	2480.5	2243.3	1807.6	1460.5	1230.1	1085.5	952.5	851.3	799.2	777.0	766.4
15°	2546.1	2229.8	1678.4	1291.8	1061.4	885.0	739.4	671.0	660.4	656.5	657.5
17.5°	2610.6	2208.6	1537.7	1125.0	884.0	691.2	617.0	613.1	615.1	615.1	615.1
20°	2668.5	2160.4	1384.4	982.4	715.3	583.3	567.8	561.1	556.3	552.4	547.6
22.5°	2713.8	2095.8	1236.9	840.7	584.2	534.1	510.0	488.8	471.4	459.9	454.1
25°	2744.7	2010.0	1101.9	704.7	525.4	485.9	442.5	406.8	379.8	363.4	356.7
27.5°	2767.8	1917.5	981.4	590.0	484.9	430.0	373.1	330.7	302.7	288.3	282.5
30°	2784.2	1812.4	875.4	518.7	439.6	371.2	310.4	269.0	248.7	241.0	237.2
32.5°	2799.6	1695.8	775.1	484.9	397.2	317.2	260.3	228.5	215.9	206.3	203.4
35°	2838.2	1587.8	679.7	449.2	353.8	270.9	223.7	200.5	188.0	182.2	180.3
37.5°	2929.7	1507.8	588.1	412.6	310.4	234.3	195.7	179.3	167.7	162.0	160.0
40°	3077.2	1467.3	510.9	373.1	268.0	206.3	177.4	162.0	149.4	140.8	138.8
42.5°	3294.2	1473.1	457.0	333.6	234.3	184.1	160.0	141.7	128.2	120.5	118.6
45°	3557.3	1515.5	419.4	295.0	206.3	166.8	140.8	121.5	108.9	102.2	100.3
47.5°	3842.7	1583.9	388.5	260.3	184.1	150.4	121.5	101.2	90.6	84.8	83.9
50°	4143.5	1650.5	356.7	226.6	164.9	134.0	102.2	83.9	75.2	70.4	68.4
52.5°	4448.1	1727.6	327.8	195.7	148.5	114.7	84.8	68.4	61.7	57.8	55.9
55°	4775.9	1785.4	299.8	171.6	132.1	97.4	70.4	56.9	51.1	46.3	45.3
57.5°	5161.5	1875.1	270.9	148.5	112.8	81.0	57.8	45.3	40.5	35.7	34.7
60°	5682.1	1980.2	240.0	131.1	92.5	66.5	47.2	36.6	30.8	27.0	26.0
62.5°	6368.5	2096.8	201.5	114.7	75.2	54.0	37.6	28.9	22.2	17.4	17.4
65°	7239.1	2286.7	164.9	96.4	61.7	44.3	28.9	21.2	12.5	7.7	7.7
67.5°	7747.1	2319.5	133.0	79.1	50.1	37.6	24.1	14.5	3.9	1.0	0.0
69°	7584.2	2129.6	112.8	67.5	43.4	35.7	22.2	10.6	1.9	0.0	0.0
70°	7277.6	1947.4	99.3	59.8	39.5	33.7	21.2	7.7	1.9	0.0	0.0
72.5°	6013.7	1386.3	75.2	44.3	28.9	29.9	19.3	4.8	1.9	0.0	0.0
75°	4380.6	842.6	54.0	30.8	18.3	22.2	13.5	1.9	1.0	0.0	0.0
77.5°	2437.1	397.2	33.7	17.4	11.6	13.5	6.7	0.0	0.0	0.0	0.0
80°	791.5	108.0	15.4	9.6	6.7	7.7	2.9	0.0	0.0	0.0	0.0
82.5°	146.5	30.8	8.7	4.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	31.8	12.5	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.9	1.0	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)