

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: P321859

Luminaire Tested: **GAN-SA5D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321859
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-SA5D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 23071 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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

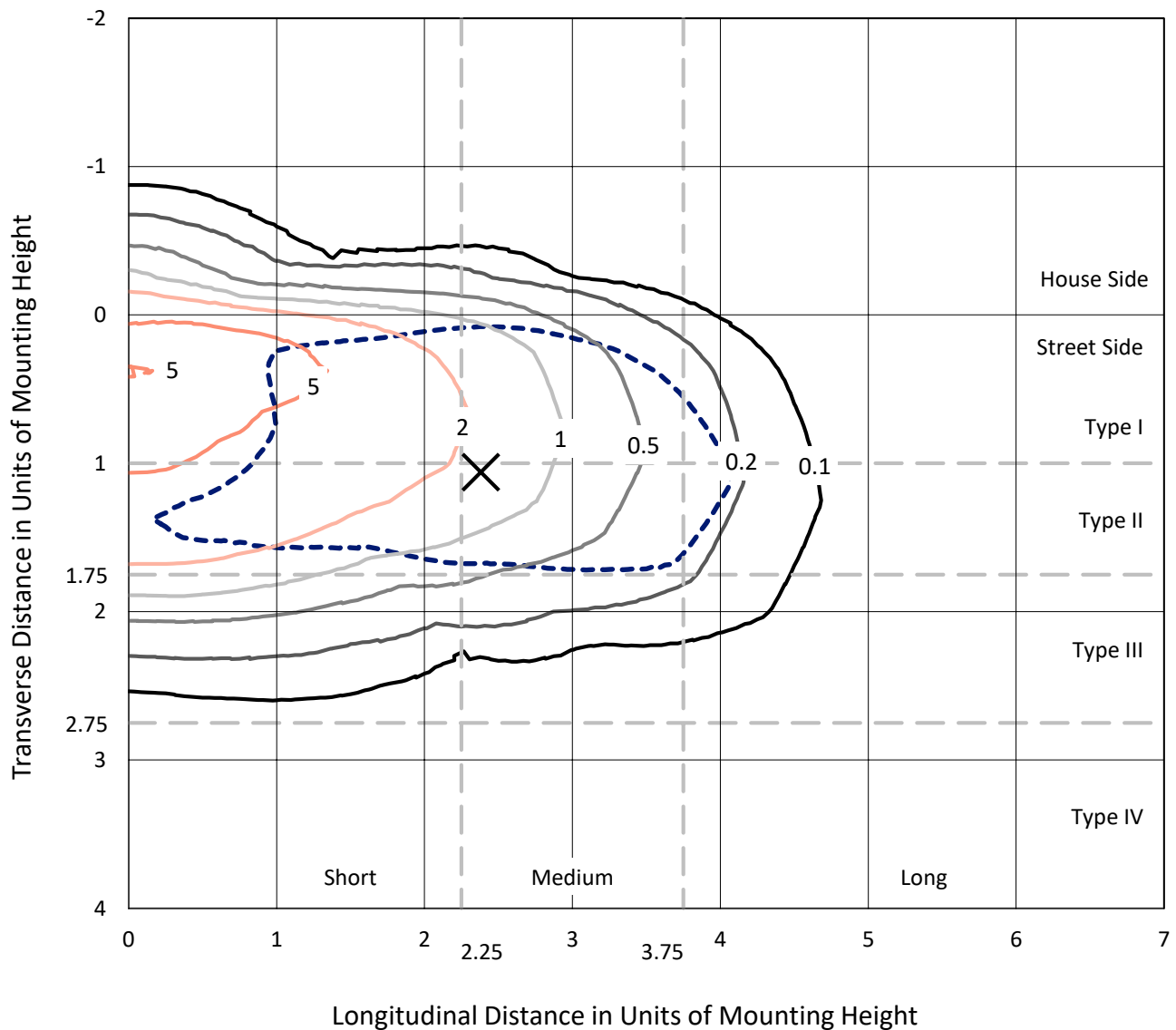


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Iso-Footcandle Lines of Horizontal Illumination

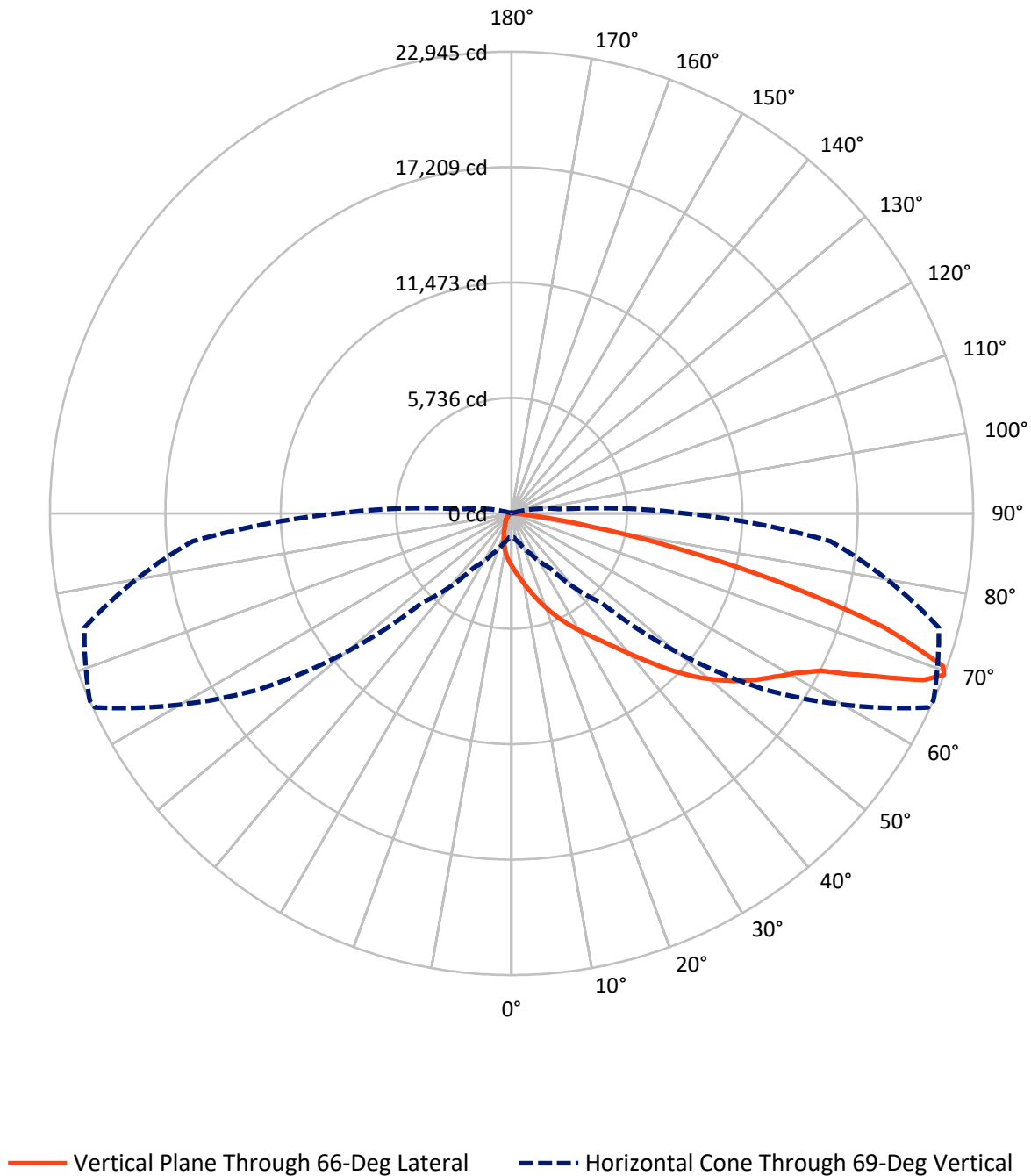
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1383.9	0.0	1383.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	21687.1	0.0	21687.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	23071.0	0.0	23071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	1.1
10°-20°	755.3	3.3
20°-30°	1315.3	5.7
30°-40°	2307.7	10.0
40°-50°	3862.8	16.7
50°-60°	5677.9	24.6
60°-70°	5829.8	25.3
70°-80°	2878.0	12.5
80°-90°	190.3	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°	23071.0	100.0
0°-180°	23071.0	100.0

Coefficient of Utilization



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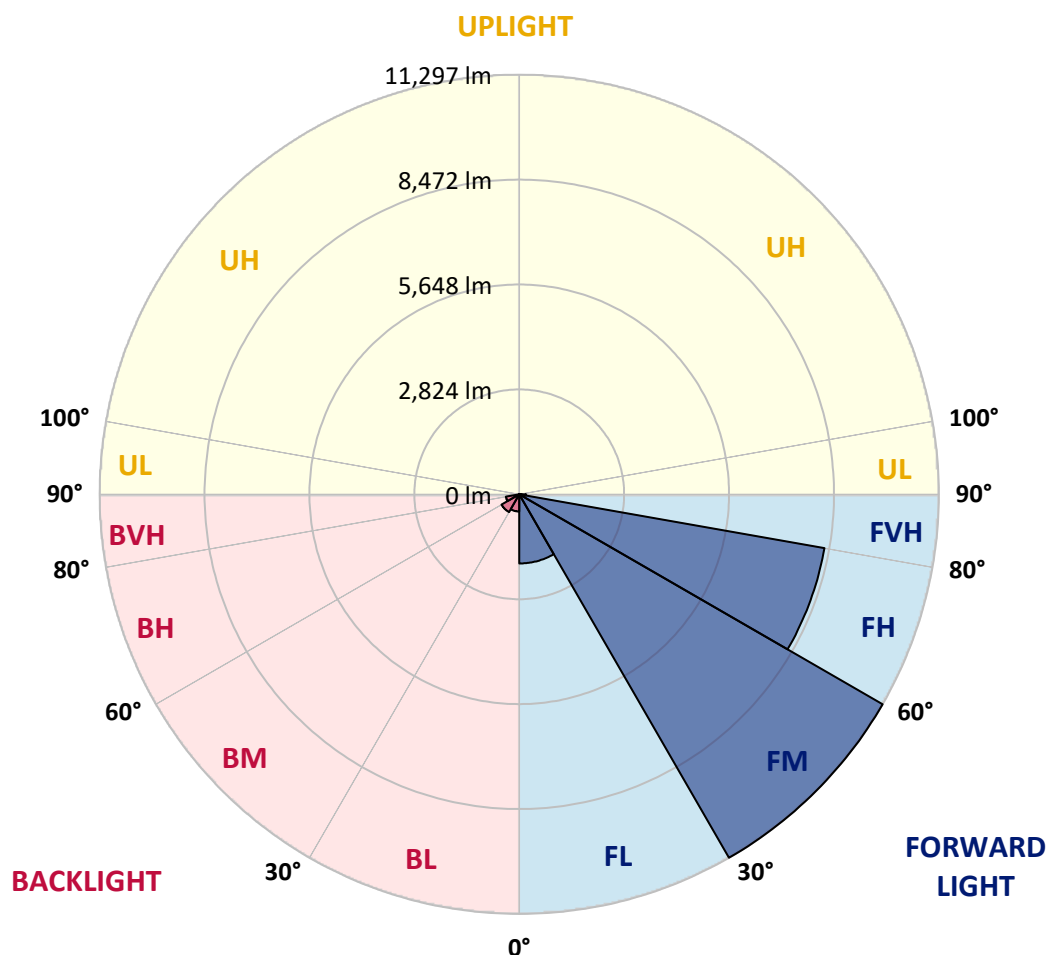
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1861.6	8.1			
FM	(30°-60°)	11296.7	49.0			
FH	(60°-80°)	8343.1	36.2			G4/12000
FVH	(80°-90°)	185.7	0.8			G2/225
BL	(0°-30°)	462.8	2.0	B1/500		
BM	(30°-60°)	551.8	2.4	B1/1000		
BH	(60°-80°)	364.7	1.6	B1/500		G1/500
BVH	(80°-90°)	4.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	3090.2	3077.0	3071.5	3047.4	3005.8	2974.0	2912.7	2841.4	2828.3	2759.2	2674.9
5°	3491.2	3480.3	3472.6	3438.6	3395.9	3315.9	3204.1	3071.5	3046.3	2914.8	2746.1
7.5°	3770.7	3790.4	3790.4	3768.5	3714.8	3654.5	3517.5	3336.7	3305.0	3103.3	2841.4
10°	3933.9	3958.1	3976.7	3995.3	3987.6	3963.5	3834.2	3630.4	3592.1	3324.7	2952.1
12.5°	3949.3	3973.4	4026.0	4103.8	4179.4	4234.2	4153.1	3955.9	3912.0	3581.1	3083.6
15°	3863.8	3889.0	3970.1	4121.3	4304.3	4464.3	4490.6	4316.4	4271.5	3886.8	3248.0
17.5°	3714.8	3731.2	3847.4	4056.7	4343.8	4637.5	4796.3	4703.2	4661.6	4236.4	3431.0
20°	3604.1	3616.2	3718.1	3942.7	4319.7	4745.9	5085.6	5114.1	5070.3	4611.2	3629.3
22.5°	3793.7	3815.6	3818.9	3925.2	4253.9	4799.6	5339.9	5518.5	5485.6	5008.9	3824.4
25°	4312.0	4337.2	4253.9	4188.2	4309.8	4823.7	5557.9	5932.7	5906.4	5437.4	4020.5
27.5°	4996.9	5023.2	4915.8	4719.6	4602.4	4914.7	5751.9	6353.5	6352.4	5891.1	4232.0
30°	5669.7	5696.0	5586.4	5390.3	5120.7	5172.2	5919.6	6794.0	6800.6	6359.0	4456.6
32.5°	6375.4	6408.3	6295.4	6043.4	5761.8	5617.1	6155.1	7236.7	7274.0	6901.4	4709.8
35°	7177.5	7181.9	7023.0	6758.9	6434.6	6212.1	6533.2	7733.1	7821.9	7573.1	5030.9
37.5°	7964.3	7996.1	7865.7	7449.3	7151.2	6899.2	7095.4	8353.3	8479.4	8393.9	5450.5
40°	8547.3	8614.1	8595.5	8146.2	7863.5	7683.8	7793.4	9090.8	9250.8	9349.4	5979.8
42.5°	8913.3	8963.7	9049.2	8778.5	8522.1	8551.7	8617.4	9949.9	10147.2	10438.7	6588.0
45°	9333.0	9357.1	9428.3	9308.9	9135.7	9433.8	9491.9	10917.5	11124.6	11610.1	7263.0
47.5°	9845.8	9902.8	9922.5	9813.0	9734.1	10214.0	10334.6	11797.5	12087.8	12864.8	7977.5
50°	10498.9	10514.3	10548.2	10477.0	10398.1	10884.7	11090.7	12721.2	12985.3	14123.9	8682.1
52.5°	11137.8	11192.6	11310.9	11266.0	11234.2	11455.6	11764.6	13554.0	13848.8	15173.6	9385.6
55°	11321.9	11369.0	11777.7	12057.2	12315.8	12159.1	12408.9	14300.3	14619.2	16111.7	10062.8
57.5°	10586.6	10681.9	11389.8	12117.4	13190.2	13252.7	13294.3	15066.3	15352.3	16830.5	10767.4
60°	8728.1	8746.7	9908.3	11156.4	13045.6	14207.1	14587.4	15889.2	16129.2	17500.0	11611.2
62.5°	5551.4	5740.9	7015.4	8777.4	11515.8	14069.1	16151.1	17134.0	17221.7	18303.3	12820.9
65°	2644.2	2766.9	3685.2	5423.1	8341.3	12301.5	17230.5	19385.9	19425.4	19895.5	14437.3
67.5°	1464.0	1523.2	1960.4	2919.2	4876.3	8699.6	16794.3	22053.1	22090.4	21521.7	15855.2
69°	1145.1	1195.5	1539.6	2200.4	3306.1	6252.7	15197.7	22834.4	22945.1	21987.4	15905.6
70°	972.0	1021.3	1325.9	1858.5	2658.4	4831.4	13527.7	22640.5	22757.7	21943.5	15529.8
72.5°	595.0	623.5	883.2	1308.4	1781.8	2430.5	8342.4	19147.0	19345.4	20128.9	13346.9
75°	401.1	416.4	552.3	902.9	1274.4	1251.4	4333.9	13496.0	13925.5	15658.0	9857.9
77.5°	287.1	301.3	370.4	584.1	893.1	826.2	1962.6	8387.3	8479.4	9391.1	5376.0
80°	163.3	176.4	261.9	347.4	606.0	551.2	780.2	4006.3	4052.3	4027.1	1794.9
82.5°	85.5	96.4	143.6	229.0	389.0	360.5	324.4	1341.3	1347.8	1121.0	393.4
85°	16.4	19.7	71.2	156.7	200.5	156.7	132.6	314.5	321.1	283.8	97.5
87.5°	0.0	1.1	28.5	35.1	39.4	40.5	42.7	61.4	65.7	88.8	26.3
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°	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6	2625.6
2.5°	2637.6	2598.2	2522.5	2434.9	2366.9	2300.1	2247.5	2192.7	2173.0	2163.1	2162.0
5°	2663.9	2580.6	2420.6	2256.3	2121.5	1994.4	1903.4	1816.8	1776.3	1757.7	1750.0
7.5°	2707.7	2574.1	2316.5	2065.6	1871.6	1712.7	1586.7	1492.5	1445.4	1425.6	1418.0
10°	2759.2	2565.3	2194.9	1864.0	1616.3	1451.9	1327.0	1233.9	1182.4	1160.5	1149.5
12.5°	2819.5	2549.9	2054.6	1660.1	1398.2	1233.9	1082.7	967.6	908.4	883.2	871.2
15°	2894.0	2534.6	1907.8	1468.4	1206.5	1006.0	840.5	762.7	750.6	746.2	747.3
17.5°	2967.4	2510.5	1747.8	1278.8	1004.9	785.7	701.3	696.9	699.1	699.1	699.1
20°	3033.2	2455.7	1573.6	1116.6	813.1	663.0	645.4	637.8	632.3	627.9	622.4
22.5°	3084.7	2382.3	1405.9	955.5	664.1	607.1	579.7	555.6	535.8	522.7	516.1
25°	3119.8	2284.8	1252.5	801.0	597.2	552.3	503.0	462.4	431.7	413.1	405.4
27.5°	3146.1	2179.6	1115.5	670.6	551.2	488.7	424.1	375.9	344.1	327.6	321.1
30°	3164.7	2060.1	995.0	589.5	499.7	421.9	352.8	305.7	282.7	274.0	269.6
32.5°	3182.2	1927.5	881.0	551.2	451.5	360.5	295.9	259.7	245.5	234.5	231.2
35°	3226.1	1804.8	772.5	510.6	402.2	307.9	254.2	227.9	213.7	207.1	204.9
37.5°	3330.2	1713.8	668.4	469.0	352.8	266.3	222.4	203.8	190.7	184.1	181.9
40°	3497.8	1667.8	580.8	424.1	304.6	234.5	201.6	184.1	169.9	160.0	157.8
42.5°	3744.4	1674.4	519.4	379.1	266.3	209.3	181.9	161.1	145.7	137.0	134.8
45°	4043.5	1722.6	476.7	335.3	234.5	189.6	160.0	138.1	123.8	116.2	114.0
47.5°	4367.9	1800.4	441.6	295.9	209.3	170.9	138.1	115.1	103.0	96.4	95.3
50°	4709.8	1876.0	405.4	257.5	187.4	152.3	116.2	95.3	85.5	80.0	77.8
52.5°	5056.1	1963.7	372.6	222.4	168.8	130.4	96.4	77.8	70.1	65.7	63.6
55°	5428.6	2029.4	340.8	195.1	150.1	110.7	80.0	64.7	58.1	52.6	51.5
57.5°	5867.0	2131.3	307.9	168.8	128.2	92.0	65.7	51.5	46.0	40.5	39.4
60°	6458.7	2250.8	272.9	149.0	105.2	75.6	53.7	41.6	35.1	30.7	29.6
62.5°	7238.9	2383.4	229.0	130.4	85.5	61.4	42.7	32.9	25.2	19.7	19.7
65°	8228.4	2599.3	187.4	109.6	70.1	50.4	32.9	24.1	14.2	8.8	8.8
67.5°	8805.9	2636.5	151.2	89.9	57.0	42.7	27.4	16.4	4.4	1.1	0.0
69°	8620.7	2420.6	128.2	76.7	49.3	40.5	25.2	12.1	2.2	0.0	0.0
70°	8272.2	2213.5	112.9	67.9	44.9	38.4	24.1	8.8	2.2	0.0	0.0
72.5°	6835.6	1575.8	85.5	50.4	32.9	34.0	21.9	5.5	2.2	0.0	0.0
75°	4979.3	957.7	61.4	35.1	20.8	25.2	15.3	2.2	1.1	0.0	0.0
77.5°	2770.2	451.5	38.4	19.7	13.1	15.3	7.7	0.0	0.0	0.0	0.0
80°	899.7	122.7	17.5	11.0	7.7	8.8	3.3	0.0	0.0	0.0	0.0
82.5°	166.6	35.1	9.9	5.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	36.2	14.2	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	4.4	1.1	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)