

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: P321843

Luminaire Tested: **GAN-SA9B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321843
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-SA9B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 30394 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 374
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

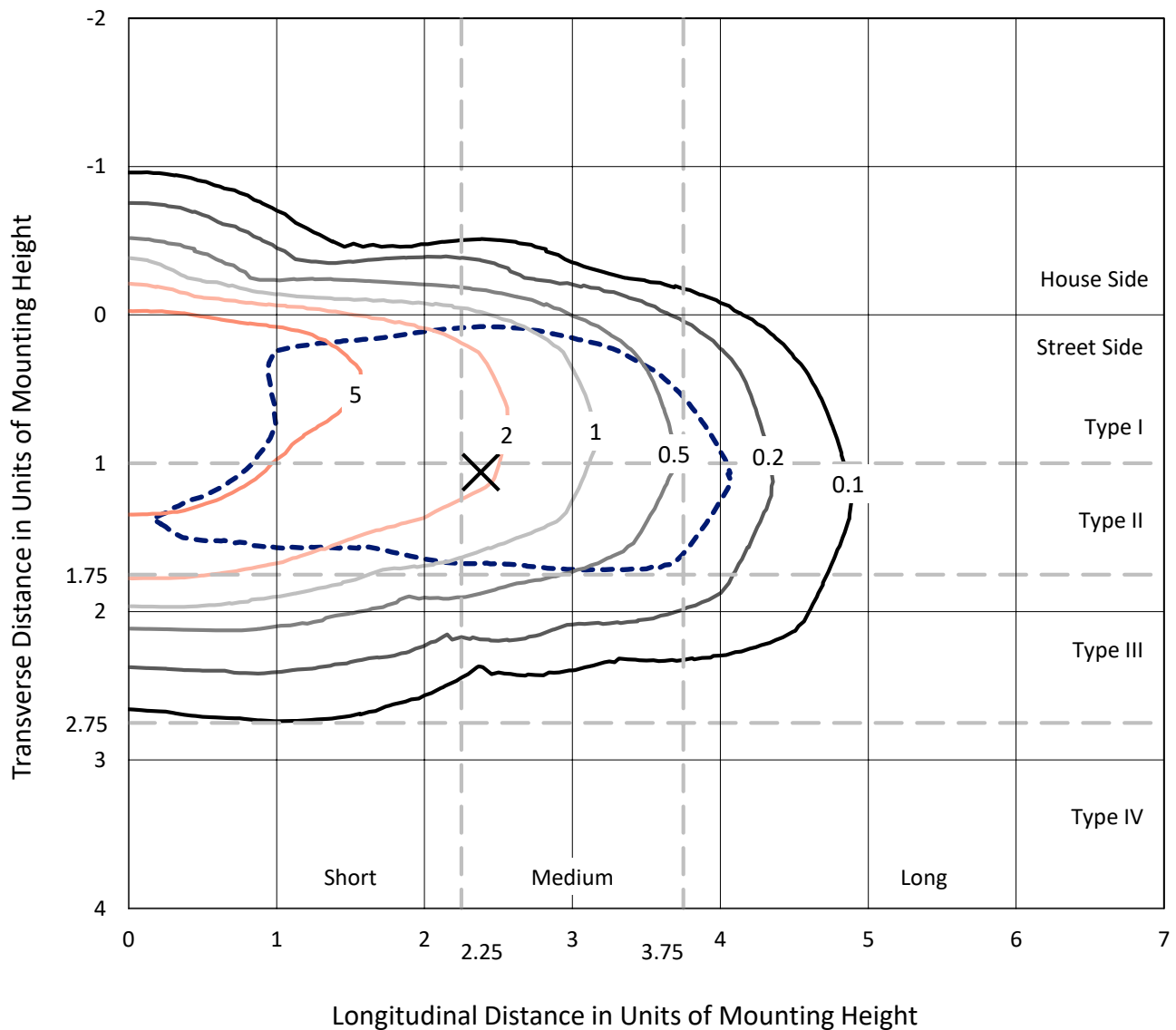


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Iso-Footcandle Lines of Horizontal Illumination

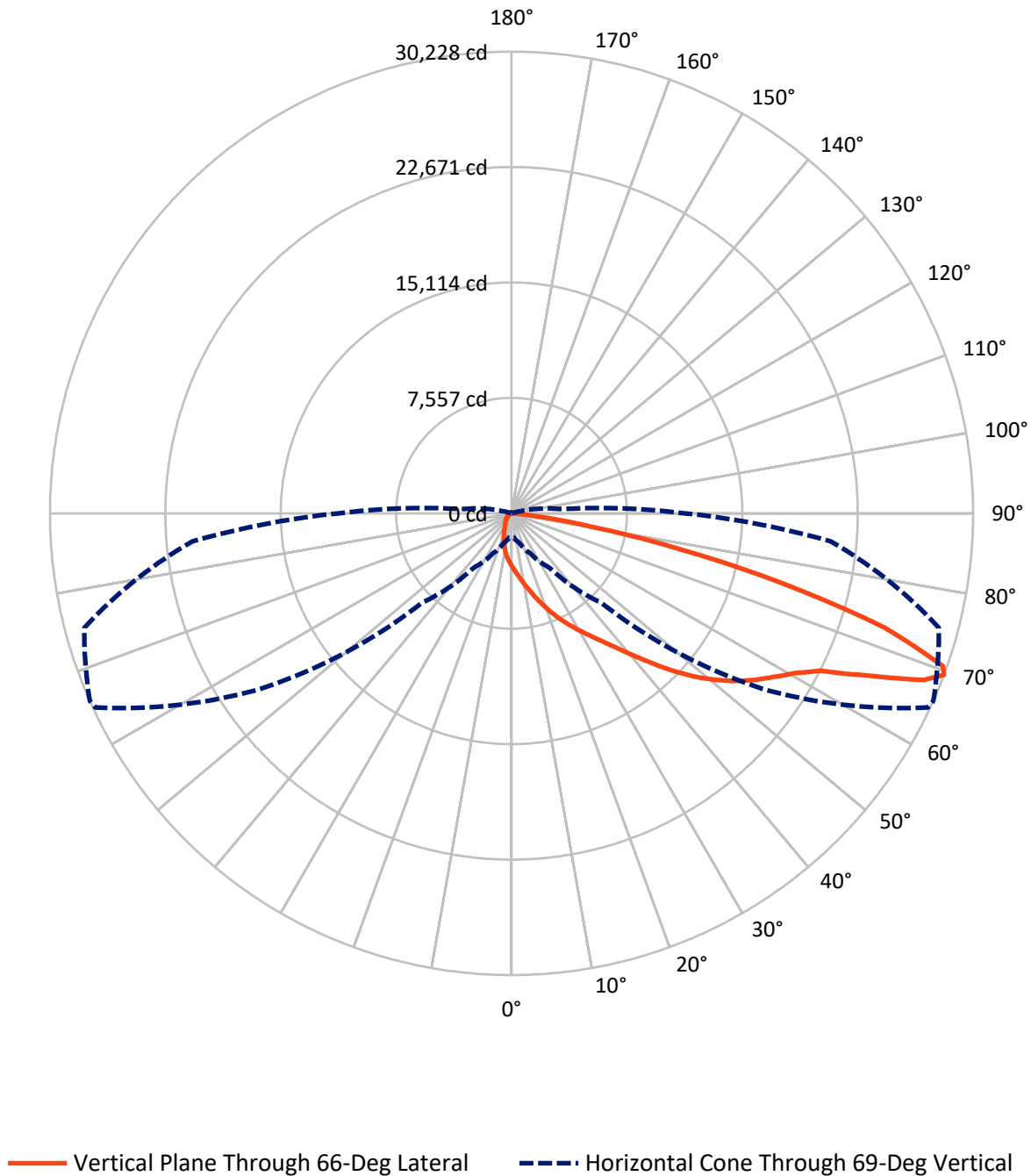
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	1823.2	0.0	1823.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	28570.8	0.0	28570.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	30394.0	0.0	30394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	1.1
10°-20°	995.1	3.3
20°-30°	1732.8	5.7
30°-40°	3040.2	10.0
40°-50°	5088.9	16.7
50°-60°	7480.2	24.6
60°-70°	7680.2	25.3
70°-80°	3791.5	12.5
80°-90°	250.7	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°	30394.0	100.0
0°-180°	30394.0	100.0

Coefficient of Utilization



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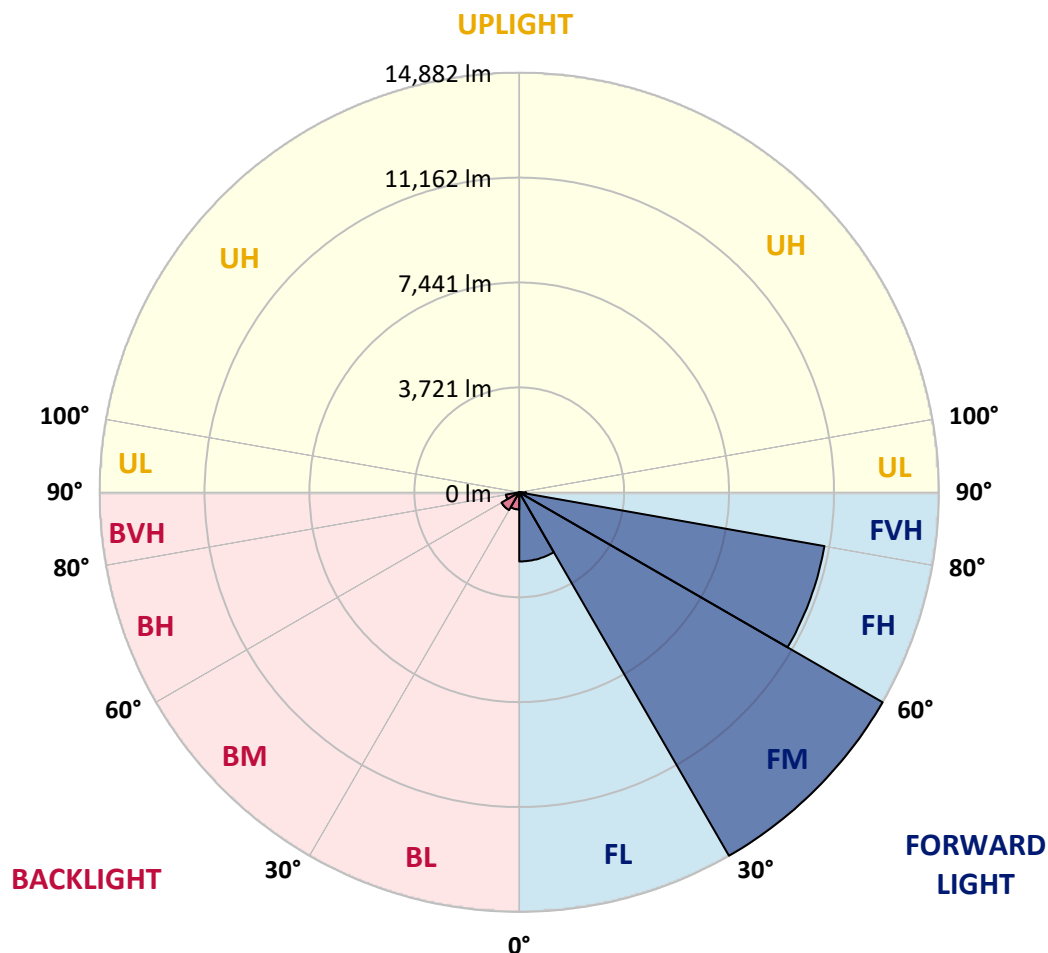
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2452.5	8.1			
FM	(30°-60°)	14882.4	49.0			
FH	(60°-80°)	10991.3	36.2			G4/12000
FVH	(80°-90°)	244.6	0.8			G3/500
BL	(0°-30°)	609.8	2.0	B2/1000		
BM	(30°-60°)	726.9	2.4	B1/1000		
BH	(60°-80°)	480.5	1.6	B1/500		G1/500
BVH	(80°-90°)	6.1	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9
2.5°	4071.0	4053.7	4046.5	4014.7	3959.9	3918.0	3837.2	3743.3	3726.0	3635.1	3523.9
5°	4599.4	4585.0	4574.9	4530.1	4473.8	4368.4	4221.2	4046.5	4013.3	3840.1	3617.7
7.5°	4967.5	4993.5	4993.5	4964.6	4893.9	4814.5	4634.0	4395.8	4354.0	4088.4	3743.3
10°	5182.6	5214.4	5238.9	5263.5	5253.4	5221.6	5051.3	4782.7	4732.2	4380.0	3889.1
12.5°	5202.8	5234.6	5303.9	5406.4	5506.0	5578.2	5471.4	5211.5	5153.8	4717.8	4062.4
15°	5090.2	5123.4	5230.3	5429.5	5670.6	5881.3	5916.0	5686.5	5627.3	5120.6	4278.9
17.5°	4893.9	4915.6	5068.6	5344.3	5722.5	6109.4	6318.8	6196.1	6141.2	5581.1	4520.0
20°	4748.1	4764.0	4898.2	5194.2	5690.8	6252.4	6699.9	6737.4	6679.7	6074.8	4781.3
22.5°	4997.8	5026.7	5031.0	5171.1	5604.2	6323.1	7034.8	7270.1	7226.8	6598.8	5038.3
25°	5680.7	5713.9	5604.2	5517.5	5677.8	6354.9	7322.1	7815.8	7781.2	7163.3	5296.7
27.5°	6582.9	6617.6	6476.1	6217.7	6063.2	6474.7	7577.6	8370.2	8368.7	7760.9	5575.3
30°	7469.3	7504.0	7359.6	7101.2	6746.1	6813.9	7798.5	8950.5	8959.2	8377.4	5871.2
32.5°	8399.0	8442.3	8293.6	7961.6	7590.6	7400.0	8108.9	9533.7	9582.8	9092.0	6204.7
35°	9455.8	9461.5	9252.2	8904.3	8477.0	8183.9	8606.9	10187.7	10304.6	9976.9	6627.7
37.5°	10492.3	10534.2	10362.4	9813.8	9421.1	9089.1	9347.5	11004.8	11170.8	11058.2	7180.6
40°	11260.3	11348.4	11323.8	10731.9	10359.5	10122.7	10267.1	11976.3	12187.1	12317.0	7877.9
42.5°	11742.5	11808.9	11921.5	11564.9	11227.1	11266.1	11352.7	13108.2	13368.0	13752.0	8679.1
45°	12295.4	12327.1	12421.0	12263.6	12035.5	12428.2	12504.7	14382.9	14655.7	15295.2	9568.4
47.5°	12971.0	13046.1	13072.1	12927.7	12823.8	13456.1	13614.9	15542.1	15924.7	16948.2	10509.6
50°	13831.4	13851.6	13896.4	13802.5	13698.6	14339.6	14611.0	16759.1	17107.0	18606.9	11437.9
52.5°	14673.0	14745.2	14901.1	14841.9	14800.1	15091.7	15498.8	17856.2	18244.6	19989.9	12364.7
55°	14915.6	14977.6	15516.1	15884.2	16224.9	16018.5	16347.7	18839.4	19259.5	21225.7	13256.8
57.5°	13946.9	14072.5	15005.1	15963.6	17377.0	17459.2	17514.1	19848.5	20225.2	22172.7	14185.1
60°	11498.5	11523.0	13053.3	14697.6	17186.4	18716.6	19217.6	20932.6	21248.8	23054.8	15296.7
62.5°	7313.4	7563.2	9242.1	11563.5	15171.1	18534.8	21277.6	22572.6	22688.1	24112.9	16890.5
65°	3483.5	3645.2	4854.9	7144.5	10988.9	16206.2	22699.6	25539.2	25591.2	26210.5	19019.8
67.5°	1928.7	2006.6	2582.7	3845.8	6424.1	11461.0	22125.1	29053.0	29102.1	28352.9	20887.9
69°	1508.6	1575.0	2028.3	2898.8	4355.4	8237.3	20021.7	30082.3	30228.1	28966.4	20954.3
70°	1280.5	1345.5	1746.8	2448.4	3502.2	6365.0	17821.6	29826.8	29981.3	28908.7	20459.1
72.5°	783.9	821.4	1163.6	1723.7	2347.3	3202.0	10990.3	25224.5	25485.8	26518.0	17583.4
75°	528.4	548.6	727.6	1189.6	1678.9	1648.6	5709.6	17779.7	18345.6	20628.0	12986.9
77.5°	378.2	397.0	487.9	769.5	1176.6	1088.5	2585.5	11049.5	11170.8	12371.9	7082.4
80°	215.1	232.4	345.0	457.6	798.3	726.1	1027.9	5277.9	5338.5	5305.3	2364.7
82.5°	112.6	127.0	189.1	301.7	512.5	475.0	427.3	1767.0	1775.7	1476.8	518.3
85°	21.7	26.0	93.8	206.4	264.2	206.4	174.7	414.3	423.0	373.9	128.5
87.5°	0.0	1.4	37.5	46.2	52.0	53.4	56.3	80.8	86.6	116.9	34.6
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°	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9	3458.9
2.5°	3474.8	3422.8	3323.2	3207.7	3118.2	3030.2	2960.9	2888.7	2862.7	2849.7	2848.3
5°	3509.5	3399.7	3189.0	2972.4	2794.9	2627.4	2507.6	2393.5	2340.1	2315.6	2305.5
7.5°	3567.2	3391.1	3051.8	2721.2	2465.7	2256.4	2090.4	1966.2	1904.1	1878.2	1868.1
10°	3635.1	3379.5	2891.6	2455.6	2129.4	1912.8	1748.2	1625.5	1557.7	1528.8	1514.4
12.5°	3714.5	3359.3	2706.8	2187.1	1842.1	1625.5	1426.3	1274.7	1196.8	1163.6	1147.7
15°	3812.6	3339.1	2513.4	1934.5	1589.4	1325.3	1107.3	1004.8	988.9	983.1	984.6
17.5°	3909.3	3307.4	2302.6	1684.7	1323.8	1035.1	923.9	918.1	921.0	921.0	921.0
20°	3996.0	3235.2	2073.1	1471.1	1071.2	873.4	850.3	840.2	833.0	827.2	820.0
22.5°	4063.8	3138.4	1852.2	1258.8	874.8	799.8	763.7	731.9	705.9	688.6	679.9
25°	4110.0	3010.0	1650.1	1055.3	786.8	727.6	662.6	609.2	568.8	544.2	534.1
27.5°	4144.7	2871.4	1469.6	883.5	726.1	643.9	558.7	495.2	453.3	431.6	423.0
30°	4169.2	2714.0	1310.8	776.7	658.3	555.8	464.8	402.8	372.5	360.9	355.1
32.5°	4192.3	2539.3	1160.7	726.1	594.8	475.0	389.8	342.1	323.4	308.9	304.6
35°	4250.0	2377.7	1017.8	672.7	529.8	405.7	334.9	300.3	281.5	272.8	270.0
37.5°	4387.2	2257.8	880.6	617.9	464.8	350.8	293.1	268.5	251.2	242.5	239.6
40°	4608.1	2197.2	765.1	558.7	401.3	308.9	265.6	242.5	223.8	210.8	207.9
42.5°	4932.9	2205.9	684.3	499.5	350.8	275.7	239.6	212.2	192.0	180.5	177.6
45°	5327.0	2269.4	628.0	441.8	308.9	249.7	210.8	181.9	163.1	153.0	150.1
47.5°	5754.3	2371.9	581.8	389.8	275.7	225.2	181.9	151.6	135.7	127.0	125.6
50°	6204.7	2471.5	534.1	339.3	246.9	200.7	153.0	125.6	112.6	105.4	102.5
52.5°	6660.9	2587.0	490.8	293.1	222.3	171.8	127.0	102.5	92.4	86.6	83.7
55°	7151.7	2673.6	449.0	257.0	197.8	145.8	105.4	85.2	76.5	69.3	67.9
57.5°	7729.2	2807.9	405.7	222.3	168.9	121.3	86.6	67.9	60.6	53.4	52.0
60°	8508.7	2965.2	359.5	196.3	138.6	99.6	70.7	54.9	46.2	40.4	39.0
62.5°	9536.6	3139.9	301.7	171.8	112.6	80.8	56.3	43.3	33.2	26.0	26.0
65°	10840.2	3424.3	246.9	144.4	92.4	66.4	43.3	31.8	18.8	11.5	11.5
67.5°	11601.0	3473.4	199.2	118.4	75.1	56.3	36.1	21.7	5.8	1.4	0.0
69°	11357.0	3189.0	168.9	101.1	65.0	53.4	33.2	15.9	2.9	0.0	0.0
70°	10898.0	2916.1	148.7	89.5	59.2	50.5	31.8	11.5	2.9	0.0	0.0
72.5°	9005.4	2075.9	112.6	66.4	43.3	44.8	28.9	7.2	2.9	0.0	0.0
75°	6559.8	1261.7	80.8	46.2	27.4	33.2	20.2	2.9	1.4	0.0	0.0
77.5°	3649.5	594.8	50.5	26.0	17.3	20.2	10.1	0.0	0.0	0.0	0.0
80°	1185.2	161.7	23.1	14.4	10.1	11.5	4.3	0.0	0.0	0.0	0.0
82.5°	219.4	46.2	13.0	7.2	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	47.6	18.8	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	5.8	1.4	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)