

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: P321862

Luminaire Tested: **GAN-SA8D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321862
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-SA8D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 36993 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 511
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



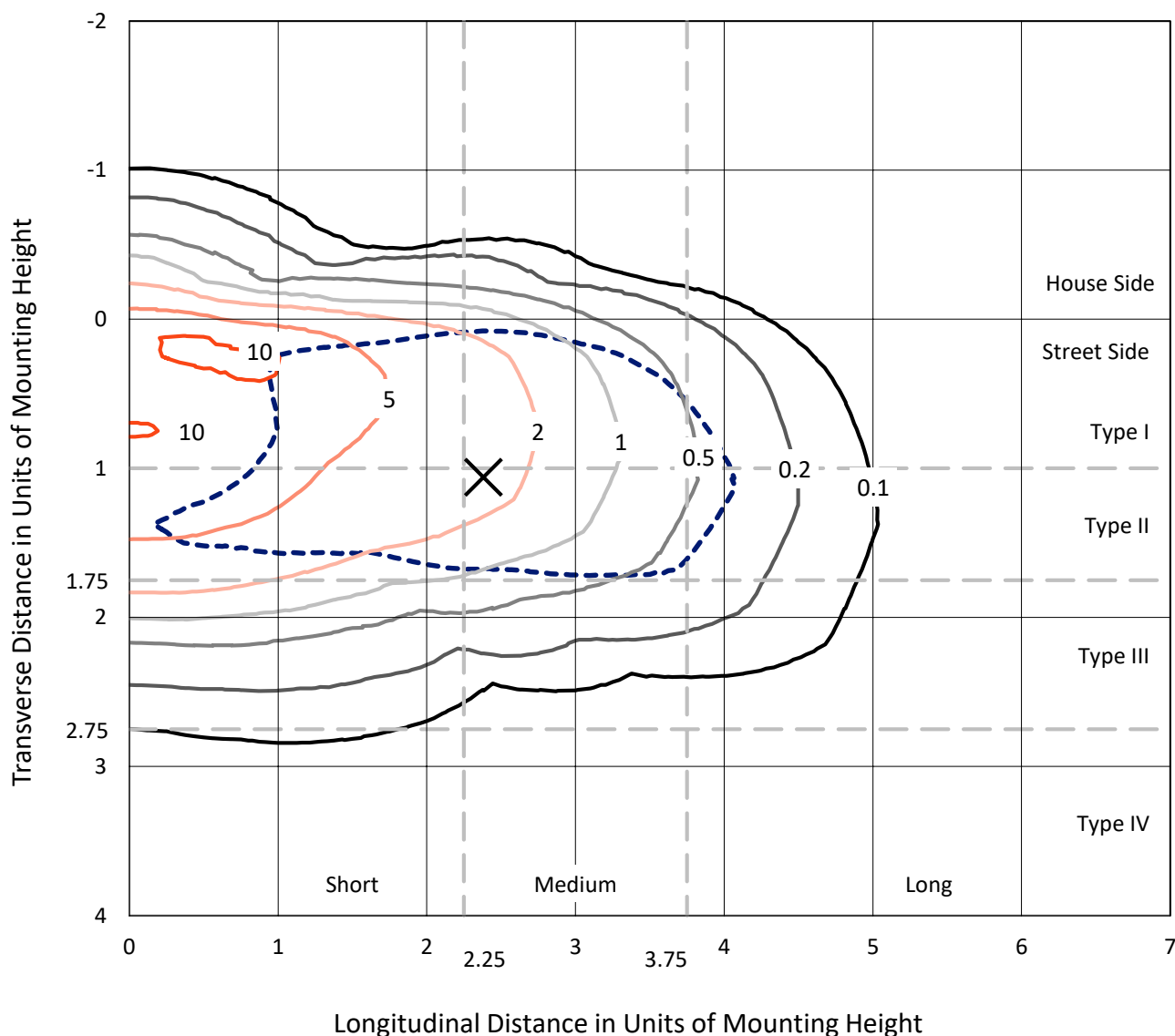
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

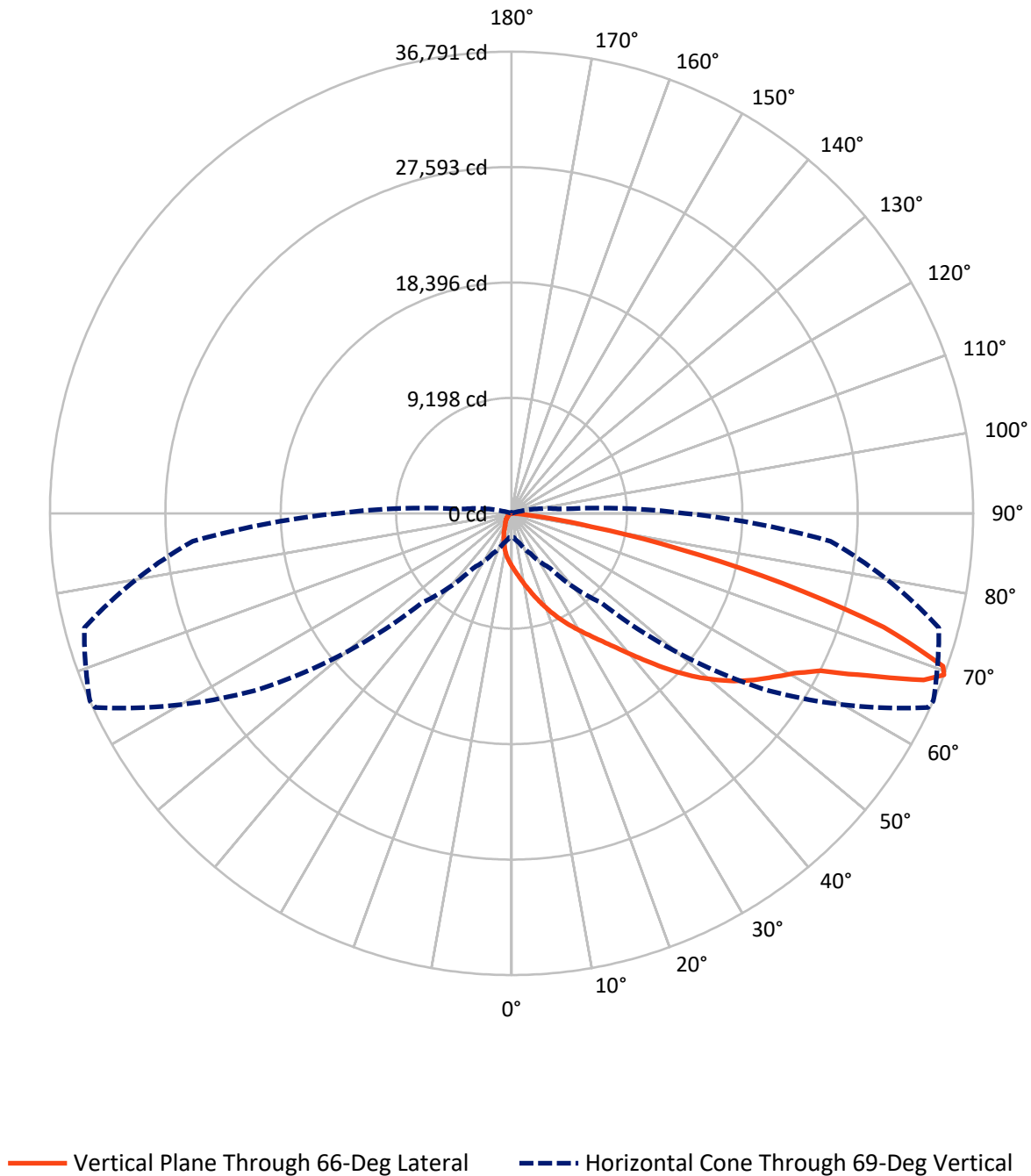
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	2219.1	0.0	2219.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	34773.9	0.0	34773.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	36993.0	0.0	36993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.9	1.1
10°-20°	1211.1	3.3
20°-30°	2109.0	5.7
30°-40°	3700.3	10.0
40°-50°	6193.7	16.7
50°-60°	9104.2	24.6
60°-70°	9347.7	25.3
70°-80°	4614.7	12.5
80°-90°	305.1	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°	36993.0	100.0
0°-180°	36993.0	100.0

Coefficient of Utilization



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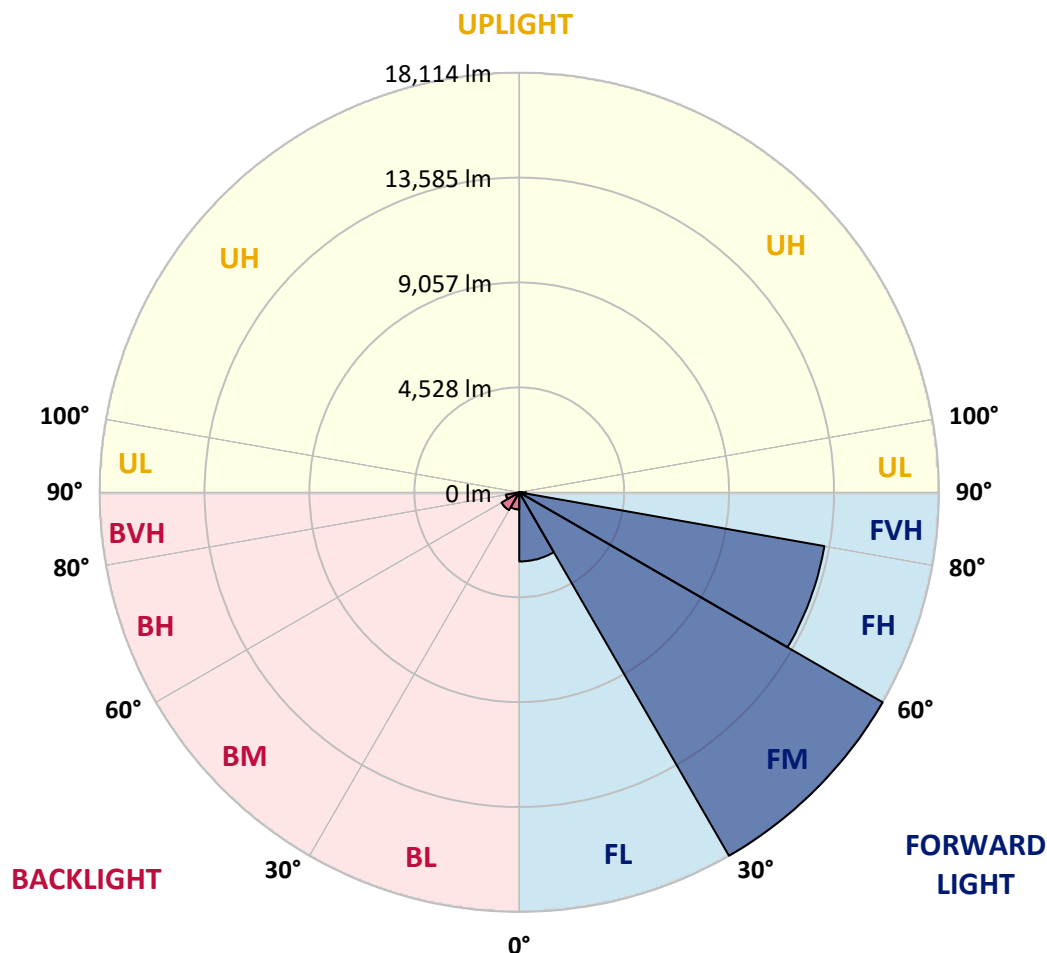
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2985.0	8.1			
FM	(30°-60°)	18113.5	49.0			
FH	(60°-80°)	13377.7	36.2			G5
FVH	(80°-90°)	297.8	0.8			G3/500
BL	(0°-30°)	742.1	2.0	B2/1000		
BM	(30°-60°)	884.7	2.4	B1/1000		
BH	(60°-80°)	584.8	1.6	B2/1000		G2/1000
BVH	(80°-90°)	7.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9
2.5°	4954.9	4933.8	4925.0	4886.4	4819.6	4768.7	4670.3	4556.1	4535.0	4424.3	4289.0
5°	5598.0	5580.4	5568.1	5513.7	5445.1	5316.9	5137.7	4925.0	4884.6	4673.8	4403.2
7.5°	6046.1	6077.7	6077.7	6042.5	5956.4	5859.8	5640.2	5350.3	5299.3	4976.0	4556.1
10°	6307.9	6346.5	6376.4	6406.3	6394.0	6355.3	6148.0	5821.1	5759.7	5330.9	4733.5
12.5°	6332.5	6371.1	6455.4	6580.2	6701.4	6789.3	6659.3	6343.0	6272.7	5742.1	4944.4
15°	6195.4	6235.8	6365.8	6608.3	6901.7	7158.3	7200.4	6921.1	6849.0	6232.3	5207.9
17.5°	5956.4	5982.8	6169.0	6504.6	6965.0	7435.9	7690.7	7541.3	7474.5	6792.8	5501.4
20°	5779.0	5798.3	5961.7	6321.9	6926.3	7609.8	8154.5	8200.2	8129.9	7393.7	5819.4
22.5°	6083.0	6118.1	6123.4	6293.8	6820.9	7695.9	8562.2	8848.6	8795.9	8031.5	6132.1
25°	6914.0	6954.5	6820.9	6715.5	6910.5	7734.6	8911.8	9512.7	9470.6	8718.5	6446.7
27.5°	8012.2	8054.4	7882.2	7567.7	7379.7	7880.4	9222.8	10187.4	10185.7	9446.0	6785.8
30°	9091.0	9133.2	8957.5	8643.0	8210.8	8293.3	9491.7	10893.8	10904.3	10196.2	7146.0
32.5°	10222.6	10275.3	10094.3	9690.2	9238.6	9006.7	9869.4	11603.6	11663.4	11066.0	7551.9
35°	11508.8	11515.8	11261.0	10837.6	10317.5	9960.8	10475.6	12399.6	12541.9	12143.1	8066.7
37.5°	12770.3	12821.3	12612.2	11944.5	11466.6	11062.5	11377.0	13394.1	13596.2	13459.1	8739.6
40°	13705.1	13812.3	13782.4	13062.0	12608.7	12320.5	12496.2	14576.6	14833.1	14991.3	9588.3
42.5°	14291.9	14372.8	14509.8	14075.8	13664.7	13712.1	13817.5	15954.1	16270.4	16737.8	10563.5
45°	14964.9	15003.6	15117.8	14926.2	14648.6	15126.6	15219.7	17505.6	17837.7	18616.1	11645.8
47.5°	15787.2	15878.6	15910.2	15734.5	15608.0	16377.6	16570.9	18916.5	19382.2	20627.9	12791.4
50°	16834.4	16859.0	16913.5	16799.3	16672.8	17452.9	17783.2	20397.7	20821.2	22646.8	13921.2
52.5°	17858.8	17946.6	18136.4	18064.4	18013.4	18368.3	18863.8	21733.1	22205.8	24330.0	15049.2
55°	18154.0	18229.5	18884.9	19333.0	19747.6	19496.4	19897.0	22929.7	23441.0	25834.1	16135.1
57.5°	16975.0	17127.8	18262.9	19429.6	21149.8	21249.9	21316.7	24157.9	24616.4	26986.7	17264.9
60°	13995.0	14024.9	15887.4	17888.7	20917.8	22780.3	23390.0	25477.4	25862.2	28060.3	18617.8
62.5°	8901.3	9205.3	11248.7	14074.1	18465.0	22558.9	25897.3	27473.4	27614.0	29348.2	20557.6
65°	4239.8	4436.6	5909.0	8695.7	13374.8	19724.8	27628.1	31084.2	31147.5	31901.2	23149.3
67.5°	2347.4	2442.3	3143.4	4680.8	7818.9	13949.3	26928.7	35360.9	35420.6	34508.7	25422.9
69°	1836.1	1917.0	2468.7	3528.2	5301.1	10025.8	24368.7	36613.7	36791.1	35255.5	25503.8
70°	1558.5	1637.6	2126.0	2980.0	4262.6	7746.9	21690.9	36302.7	36490.7	35185.2	24901.1
72.5°	954.1	999.8	1416.2	2097.9	2857.0	3897.2	13376.5	30701.2	31019.2	32275.5	21401.0
75°	643.1	667.7	885.6	1447.8	2043.5	2006.6	6949.2	21640.0	22328.8	25106.7	15806.5
77.5°	460.4	483.2	593.9	936.5	1432.0	1324.8	3146.9	13448.6	13596.2	15058.0	8620.1
80°	261.8	282.9	419.9	557.0	971.7	883.8	1251.0	6423.8	6497.6	6457.2	2878.1
82.5°	137.1	154.6	230.2	367.2	623.8	578.1	520.1	2150.6	2161.2	1797.5	630.8
85°	26.4	31.6	114.2	251.3	321.5	251.3	212.6	504.3	514.8	455.1	156.4
87.5°	0.0	1.8	45.7	56.2	63.3	65.0	68.5	98.4	105.4	142.3	42.2
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°	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9	4209.9
2.5°	4229.2	4166.0	4044.8	3904.2	3795.3	3688.1	3603.7	3515.9	3484.3	3468.4	3466.7
5°	4271.4	4137.9	3881.4	3617.8	3401.7	3197.9	3052.0	2913.2	2848.2	2818.3	2806.0
7.5°	4341.7	4127.3	3714.4	3312.1	3001.1	2746.3	2544.2	2393.1	2317.6	2285.9	2273.6
10°	4424.3	4113.3	3519.4	2988.8	2591.7	2328.1	2127.8	1978.5	1895.9	1860.7	1843.2
12.5°	4520.9	4088.7	3294.5	2661.9	2242.0	1978.5	1736.0	1551.5	1456.6	1416.2	1396.9
15°	4640.4	4064.1	3059.0	2354.5	1934.5	1613.0	1347.7	1222.9	1203.6	1196.6	1198.3
17.5°	4758.1	4025.4	2802.5	2050.5	1611.2	1259.8	1124.5	1117.5	1121.0	1121.0	1121.0
20°	4863.5	3937.6	2523.1	1790.4	1303.7	1063.0	1034.9	1022.6	1013.8	1006.8	998.0
22.5°	4946.1	3819.9	2254.3	1532.2	1064.8	973.4	929.5	890.8	859.2	838.1	827.6
25°	5002.4	3663.5	2008.3	1284.4	957.6	885.6	806.5	741.5	692.3	662.4	650.1
27.5°	5044.5	3494.8	1788.7	1075.3	883.8	783.6	680.0	602.7	551.7	525.4	514.8
30°	5074.4	3303.3	1595.4	945.3	801.2	676.5	565.8	490.2	453.3	439.3	432.2
32.5°	5102.5	3090.7	1412.7	883.8	723.9	578.1	474.4	416.4	393.6	376.0	370.7
35°	5172.8	2893.9	1238.7	818.8	644.8	493.7	407.6	365.5	342.6	332.1	328.6
37.5°	5339.7	2748.0	1071.8	752.0	565.8	427.0	356.7	326.8	305.7	295.2	291.7
40°	5608.5	2674.2	931.2	680.0	488.5	376.0	323.3	295.2	272.3	256.5	253.0
42.5°	6003.9	2684.8	832.8	607.9	427.0	335.6	291.7	258.3	233.7	219.6	216.1
45°	6483.6	2762.1	764.3	537.7	376.0	304.0	256.5	221.4	198.5	186.2	182.7
47.5°	7003.7	2886.9	708.1	474.4	335.6	274.1	221.4	184.5	165.2	154.6	152.9
50°	7551.9	3008.1	650.1	412.9	300.5	244.2	186.2	152.9	137.1	128.3	124.8
52.5°	8107.1	3148.7	597.4	356.7	270.6	209.1	154.6	124.8	112.5	105.4	101.9
55°	8704.5	3254.1	546.4	312.8	240.7	177.5	128.3	103.7	93.1	84.3	82.6
57.5°	9407.3	3417.5	493.7	270.6	205.6	147.6	105.4	82.6	73.8	65.0	63.3
60°	10356.1	3609.0	437.5	239.0	168.7	121.2	86.1	66.8	56.2	49.2	47.4
62.5°	11607.2	3821.6	367.2	209.1	137.1	98.4	68.5	52.7	40.4	31.6	31.6
65°	13193.8	4167.8	300.5	175.7	112.5	80.8	52.7	38.7	22.8	14.1	14.1
67.5°	14119.8	4227.5	242.5	144.1	91.4	68.5	43.9	26.4	7.0	1.8	0.0
69°	13822.8	3881.4	205.6	123.0	79.1	65.0	40.4	19.3	3.5	0.0	0.0
70°	13264.1	3549.3	181.0	108.9	72.0	61.5	38.7	14.1	3.5	0.0	0.0
72.5°	10960.6	2526.7	137.1	80.8	52.7	54.5	35.1	8.8	3.5	0.0	0.0
75°	7984.1	1535.7	98.4	56.2	33.4	40.4	24.6	3.5	1.8	0.0	0.0
77.5°	4441.9	723.9	61.5	31.6	21.1	24.6	12.3	0.0	0.0	0.0	0.0
80°	1442.5	196.8	28.1	17.6	12.3	14.1	5.3	0.0	0.0	0.0	0.0
82.5°	267.1	56.2	15.8	8.8	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	58.0	22.8	8.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	7.0	1.8	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)