

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: P321424

Luminaire Tested: **GAN-SA0D-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45570 lumens
Efficiency: N/A
Efficacy: 71.2 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): 640
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



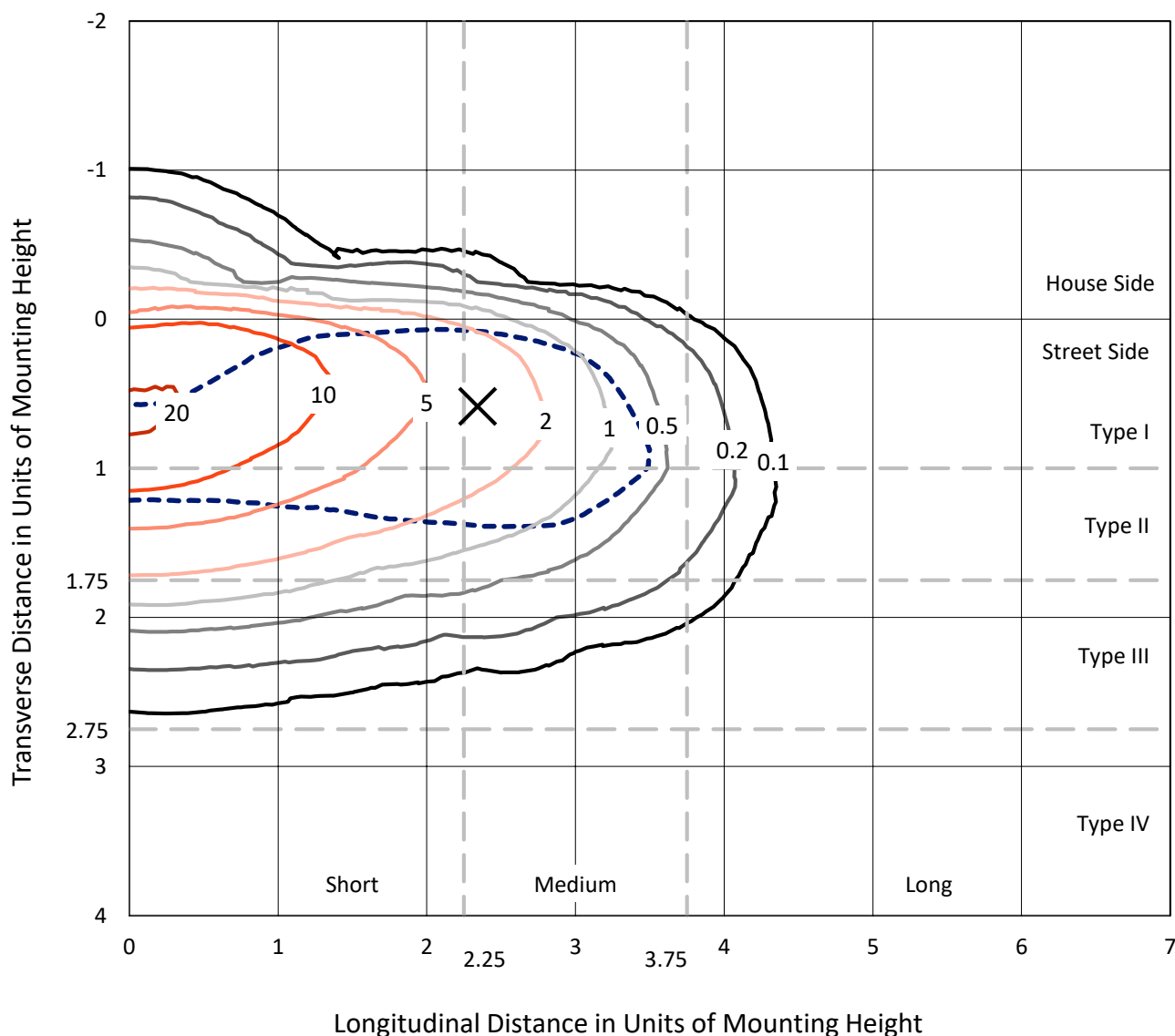
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

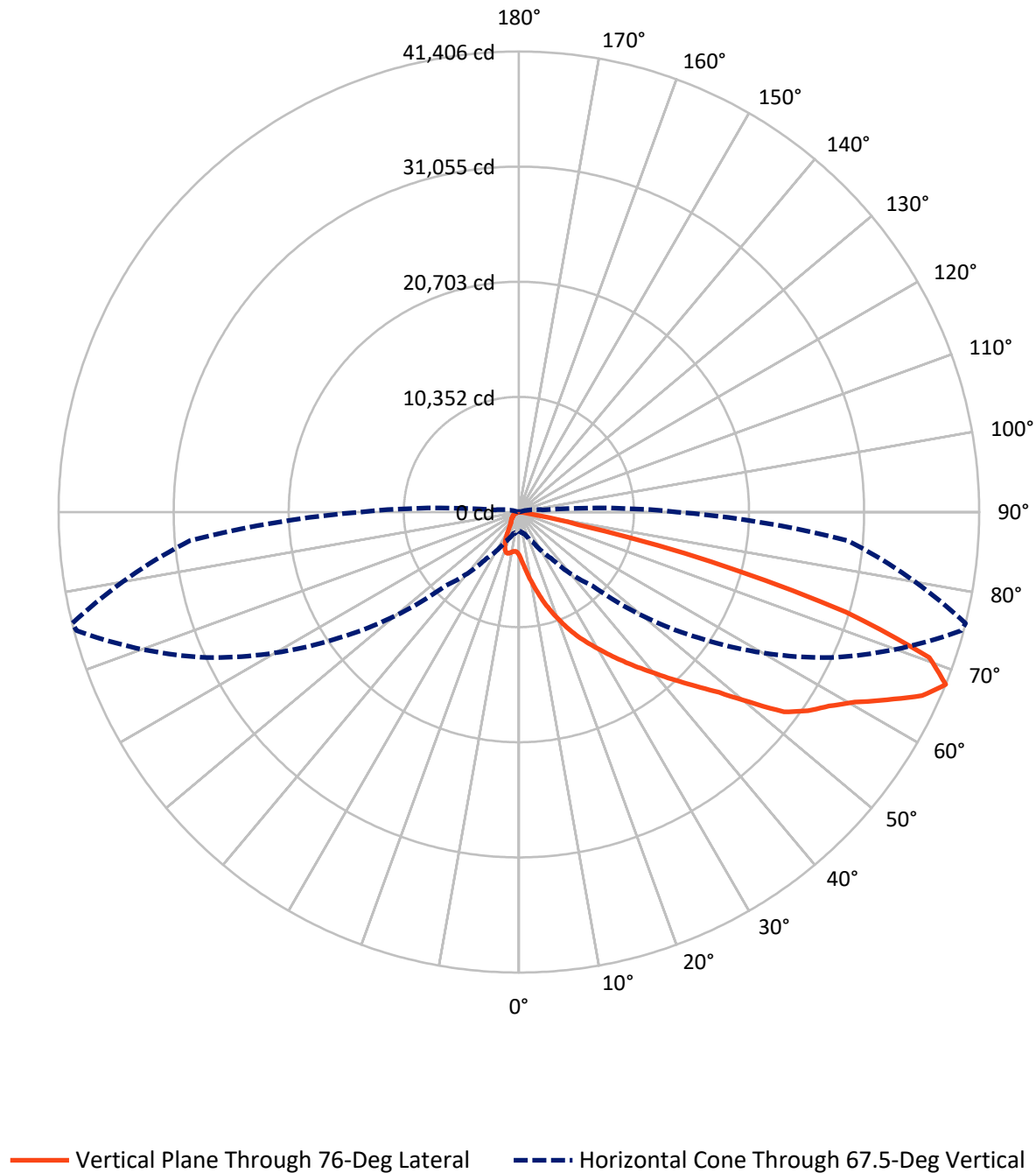
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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	2262.9	0.0	2262.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	43307.1	0.0	43307.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	45570.0	0.0	45570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	1.1
10°-20°	1905.5	4.2
20°-30°	3877.1	8.5
30°-40°	6729.4	14.8
40°-50°	9507.8	20.9
50°-60°	10782.3	23.7
60°-70°	8942.9	19.6
70°-80°	3239.4	7.1
80°-90°	105.0	0.2
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°	45570.0	100.0
0°-180°	45570.0	100.0

Coefficient of Utilization



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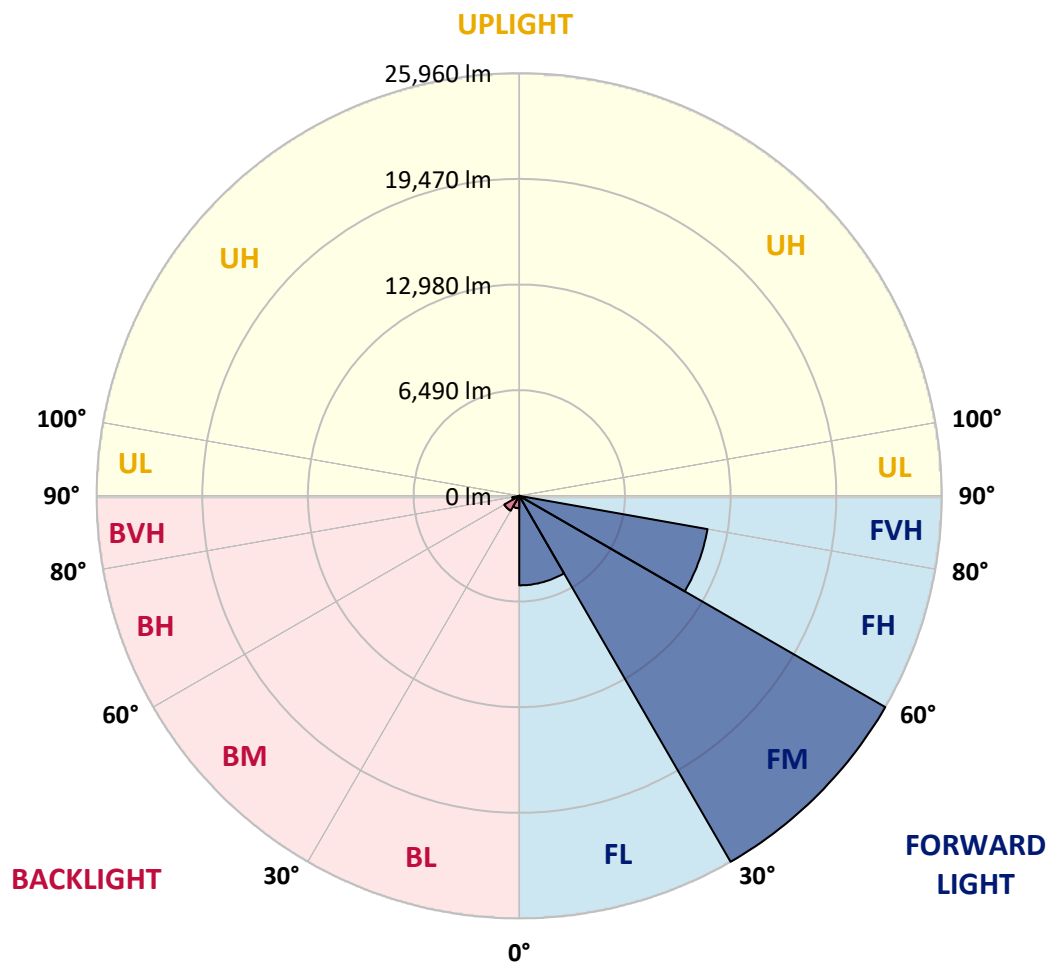
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5500.1	12.1			
FM	(30°-60°)	25960.3	57.0			
FH	(60°-80°)	11744.9	25.8			G4/12000
FVH	(80°-90°)	101.7	0.2			G2/225
BL	(0°-30°)	763.2	1.7	B2/1000		
BM	(30°-60°)	1059.1	2.3	B2/2500		
BH	(60°-80°)	437.3	1.0	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	75°	76°	85°
0°	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7
2.5°	5770.5	5640.7	5670.7	5586.8	5435.1	5123.6	4858.0	4606.4	4312.9	4302.9	4061.3
5°	7781.2	7671.4	7657.4	7487.7	7212.2	6683.0	6167.9	5580.8	4925.9	4878.0	4364.8
7.5°	9606.2	9518.4	9486.4	9284.8	8771.6	8256.4	7585.6	6723.0	5698.6	5610.8	4774.2
10°	11007.9	10966.0	10974.0	10830.2	10390.9	9911.7	9031.2	7931.0	6575.2	6439.4	5265.4
12.5°	12070.2	12080.2	12152.1	12064.2	11818.6	11463.2	10522.7	9218.9	7545.6	7359.9	5826.4
15°	12850.9	12900.8	13032.6	13142.4	13124.5	12817.0	11954.4	10526.7	8575.9	8370.3	6451.4
17.5°	13356.1	13412.0	13603.7	13847.3	14070.9	13999.0	13336.1	11788.7	9618.2	9380.6	7120.3
20°	13799.4	13865.2	14070.9	14392.4	14809.7	14899.5	14464.3	13012.6	10658.5	10369.0	7811.2
22.5°	14759.8	14757.8	14883.6	15071.3	15468.6	15700.2	15424.7	14148.8	11686.8	11385.3	8516.0
25°	16496.9	16431.0	16387.1	16239.3	16327.2	16471.0	16317.2	15211.0	12721.1	12415.6	9230.9
27.5°	18561.5	18601.5	18246.1	17848.7	17541.2	17393.5	17141.9	16195.4	13715.5	13380.0	9929.7
30°	20740.0	20751.9	20332.6	19825.5	19148.6	18587.5	18152.2	17135.9	14737.8	14372.4	10608.6
32.5°	22704.7	22626.9	22211.5	21520.7	20666.1	20035.1	19130.6	18186.2	15820.0	15466.6	11363.4
35°	24262.2	24170.3	23665.2	23036.2	22149.6	21514.7	20426.5	19234.4	16958.2	16612.7	12120.1
37.5°	25400.3	25292.5	24773.3	24126.4	23361.7	22992.3	21930.0	20374.6	18200.1	17828.7	12916.8
40°	25795.7	25701.8	25376.4	24903.1	24288.1	24204.3	23525.4	21686.4	19551.9	19156.6	13819.3
42.5°	25560.1	25468.2	25352.4	25192.7	24937.1	25016.9	25030.9	23182.0	21053.4	20664.1	14815.7
45°	24625.6	24543.7	24663.5	24897.1	25214.6	25610.0	26404.7	24789.3	22730.7	22315.4	15967.8
47.5°	23249.8	23189.9	23521.4	24104.4	25032.9	26123.1	27660.6	26478.5	24613.6	24228.2	17405.4
50°	21293.1	21283.1	21946.0	23010.2	24437.9	26370.7	28958.5	28399.4	27229.3	26824.0	19404.2
52.5°	18246.1	18266.0	19569.9	21273.1	23393.6	26203.0	29793.1	30867.3	30272.3	29851.0	21135.3
55°	15344.8	15464.6	16389.1	18845.1	21792.2	25580.0	30080.6	32019.5	31951.6	31552.2	22097.7
57.5°	12503.5	12721.1	13611.7	15905.9	19454.1	24144.4	29922.9	32518.6	33201.5	32896.0	23367.6
60°	9424.5	9524.4	10550.7	12695.2	16453.0	21524.7	28778.8	32790.2	34910.7	34699.1	25210.6
62.5°	5996.2	6245.7	7156.3	9224.9	12811.0	17886.6	26849.9	32786.2	37049.2	37165.0	27588.7
65°	3158.8	3450.3	3933.5	5716.6	8803.6	13823.3	23948.7	32478.7	39672.9	39834.6	29447.7
67.5°	1703.2	1787.1	2042.6	2967.1	5105.6	9364.6	19685.7	30961.2	41192.4	41406.0	29707.2
70°	1246.0	1291.9	1387.7	1641.3	2569.8	5439.1	14364.4	27520.8	39233.6	39153.7	26394.7
72.5°	956.4	1028.3	1100.2	1202.0	1477.6	2903.2	8943.3	21550.6	31304.6	30777.5	19729.6
75°	754.8	766.7	868.6	960.4	1108.2	1653.3	3971.5	12551.4	19106.6	17858.7	10231.2
77.5°	603.0	611.0	670.9	750.8	890.5	1086.2	1230.0	4937.9	6100.0	5443.1	2220.4
80°	357.4	377.4	499.2	579.0	738.8	684.9	449.3	1072.2	952.4	862.6	373.4
82.5°	199.7	215.6	281.5	457.2	515.2	327.5	223.6	289.5	223.6	217.6	105.8
85°	0.0	10.0	181.7	283.5	209.7	71.9	93.8	95.8	65.9	61.9	41.9
87.5°	0.0	0.0	55.9	53.9	8.0	12.0	22.0	31.9	26.0	26.0	22.0
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°	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7	3865.7
2.5°	3941.5	3833.7	3630.0	3430.4	3262.6	3124.9	3001.1	2951.2	2911.2	2905.2	2873.3
5°	4117.2	3899.6	3510.2	3190.8	2977.1	2825.4	2695.6	2615.7	2553.8	2529.8	2507.9
7.5°	4382.8	4053.3	3494.3	3126.9	2871.3	2615.7	2376.1	2116.5	1954.8	1892.9	1857.0
10°	4706.3	4257.0	3554.2	3108.9	2661.6	2122.5	1725.2	1395.7	1261.9	1218.0	1206.0
12.5°	5083.7	4510.6	3658.0	2997.1	2214.4	1507.5	1190.0	1078.2	1048.3	1034.3	1034.3
15°	5516.9	4788.1	3731.9	2673.6	1637.3	1140.1	1030.3	978.4	946.4	928.5	930.5
17.5°	5960.2	5059.7	3695.9	2204.4	1208.0	1014.3	932.5	876.6	832.6	814.7	810.7
20°	6407.5	5311.3	3496.3	1641.3	1022.3	920.5	828.6	766.7	722.8	704.8	700.8
22.5°	6870.7	5524.9	3144.8	1204.0	918.5	816.7	726.8	664.9	623.0	607.0	599.0
25°	7322.0	5698.6	2653.6	974.4	820.7	718.8	633.0	575.1	537.1	521.1	519.1
27.5°	7743.3	5808.5	2084.6	860.6	734.8	631.0	553.1	501.2	469.2	457.2	455.3
30°	8122.7	5818.5	1541.5	776.7	658.9	555.1	483.2	437.3	409.3	397.3	393.4
32.5°	8506.0	5734.6	1122.2	700.8	589.0	489.2	419.3	383.4	363.4	353.4	353.4
35°	8867.4	5540.9	874.6	635.0	521.1	425.3	369.4	343.4	331.5	321.5	321.5
37.5°	9220.9	5263.4	742.8	577.1	457.2	371.4	325.5	309.5	299.5	289.5	289.5
40°	9580.3	4913.9	674.9	523.1	405.3	329.5	289.5	275.5	265.6	257.6	255.6
42.5°	10021.6	4510.6	631.0	473.2	359.4	291.5	255.6	239.6	231.6	223.6	219.6
45°	10532.7	4163.2	595.0	423.3	321.5	259.6	221.6	205.7	193.7	183.7	181.7
47.5°	11269.5	3911.6	547.1	369.4	285.5	225.6	191.7	173.7	155.7	145.8	143.8
50°	12210.0	3703.9	485.2	321.5	249.6	191.7	159.7	137.8	121.8	111.8	111.8
52.5°	12677.2	3432.4	429.3	279.5	209.7	161.7	129.8	103.8	95.8	85.9	85.9
55°	12864.9	3224.7	373.4	237.6	173.7	133.8	101.8	79.9	73.9	67.9	65.9
57.5°	13392.0	3164.8	325.5	201.7	143.8	105.8	77.9	59.9	55.9	47.9	47.9
60°	14240.6	3194.8	281.5	171.7	115.8	81.9	57.9	45.9	41.9	33.9	33.9
62.5°	15157.1	3156.8	237.6	147.8	89.9	59.9	39.9	33.9	33.9	20.0	18.0
65°	15332.8	2811.4	203.7	121.8	69.9	43.9	26.0	22.0	30.0	4.0	0.0
67.5°	14230.6	2180.4	175.7	93.8	51.9	33.9	20.0	10.0	26.0	0.0	0.0
70°	11379.3	1385.7	141.8	67.9	39.9	28.0	16.0	4.0	20.0	0.0	0.0
72.5°	8046.8	804.7	111.8	47.9	33.9	22.0	12.0	0.0	12.0	0.0	0.0
75°	4069.3	429.3	69.9	35.9	26.0	16.0	8.0	0.0	2.0	0.0	0.0
77.5°	880.6	199.7	43.9	26.0	18.0	10.0	4.0	0.0	0.0	0.0	0.0
80°	191.7	87.9	28.0	16.0	10.0	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.9	45.9	14.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.9	24.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	8.0	2.0	2.0	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)