

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: P321203

Luminaire Tested: **GAN-SA9B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321203
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-SA9B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 34485 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

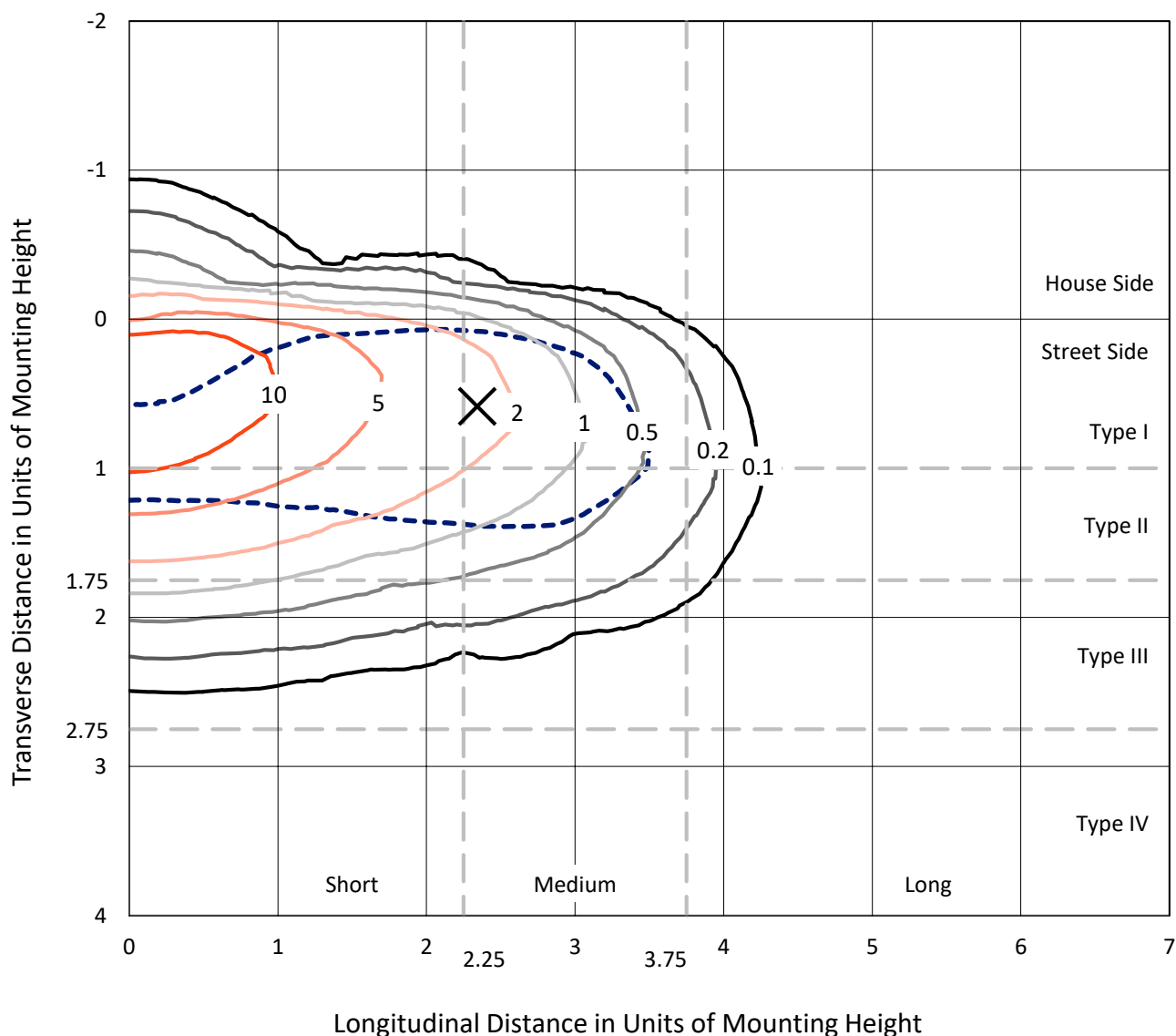
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

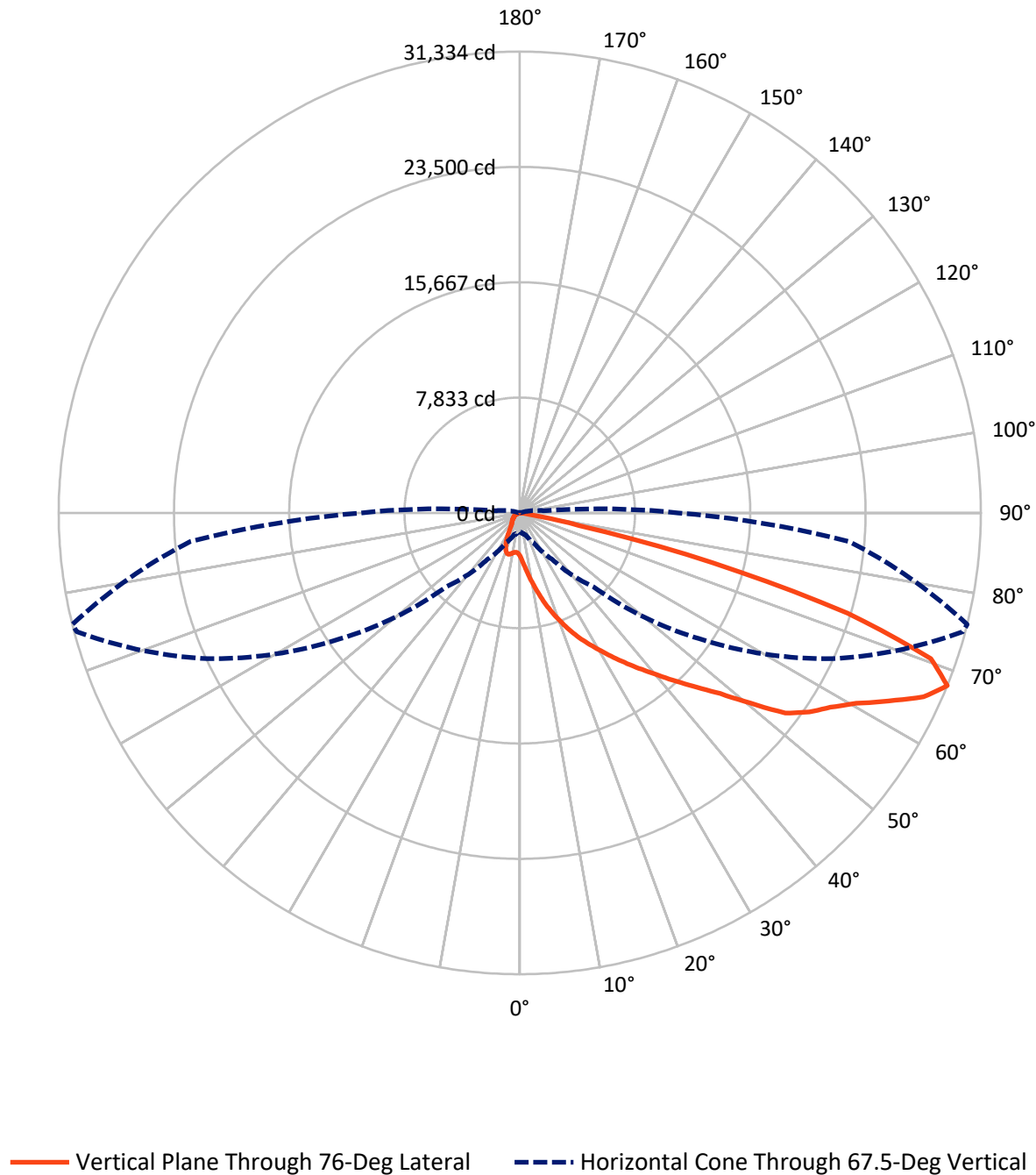
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	1712.4	0.0	1712.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32772.6	0.0	32772.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	34485.0	0.0	34485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	1.1
10°-20°	1442.0	4.2
20°-30°	2934.0	8.5
30°-40°	5092.4	14.8
40°-50°	7195.0	20.9
50°-60°	8159.5	23.7
60°-70°	6767.5	19.6
70°-80°	2451.4	7.1
80°-90°	79.5	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°	34485.0	100.0
0°-180°	34485.0	100.0

Coefficient of Utilization



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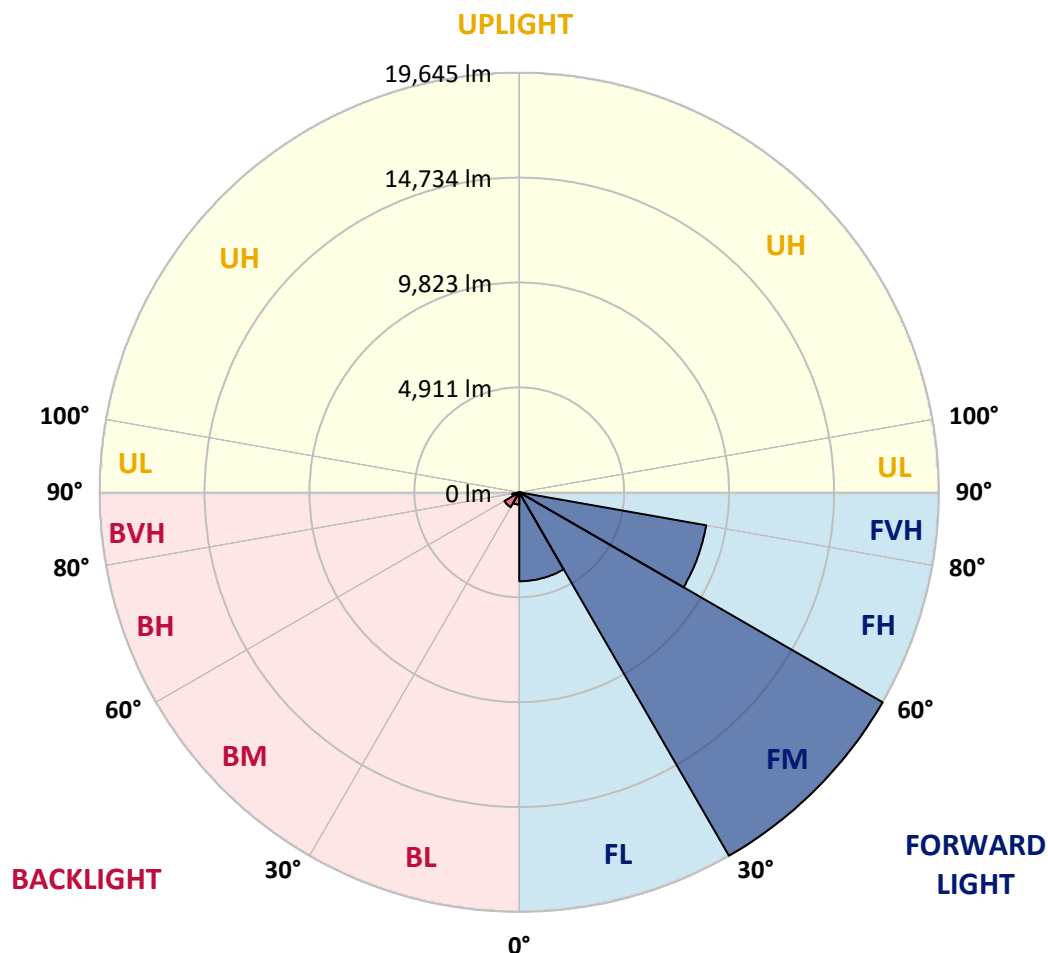
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4162.2	12.1			
FM	(30°-60°)	19645.4	57.0			
FH	(60°-80°)	8887.9	25.8			G4/12000
FVH	(80°-90°)	77.0	0.2			G1/100
BL	(0°-30°)	577.5	1.7	B2/1000		
BM	(30°-60°)	801.5	2.3	B1/1000		
BH	(60°-80°)	330.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3
2.5°	4366.8	4268.6	4291.3	4227.8	4113.0	3877.3	3676.3	3485.9	3263.8	3256.2	3073.4
5°	5888.4	5805.3	5794.7	5666.3	5457.8	5057.4	4667.5	4223.3	3727.7	3691.4	3303.1
7.5°	7269.5	7203.0	7178.8	7026.2	6637.9	6248.1	5740.3	5087.6	4312.4	4246.0	3612.8
10°	8330.2	8298.5	8304.5	8195.8	7863.3	7500.7	6834.3	6001.8	4975.8	4873.0	3984.5
12.5°	9134.1	9141.6	9196.0	9129.6	8943.7	8674.7	7963.1	6976.4	5710.1	5569.6	4409.1
15°	9724.9	9762.7	9862.4	9945.5	9931.9	9699.2	9046.5	7966.1	6489.8	6334.2	4882.1
17.5°	10107.2	10149.5	10294.6	10478.9	10648.1	10593.7	10092.1	8921.0	7278.6	7098.8	5388.3
20°	10442.6	10492.5	10648.1	10891.4	11207.2	11275.2	10945.8	9847.3	8065.8	7846.7	5911.1
22.5°	11169.4	11167.9	11263.1	11405.1	11705.8	11881.1	11672.6	10707.1	8844.0	8615.8	6444.5
25°	12484.0	12434.1	12400.9	12289.1	12355.6	12464.4	12348.0	11510.9	9626.7	9395.5	6985.4
27.5°	14046.4	14076.6	13807.7	13507.0	13274.3	13162.5	12972.1	12255.8	10379.2	10125.3	7514.3
30°	15694.9	15704.0	15386.7	15002.9	14490.6	14066.0	13736.6	12967.5	11152.8	10876.3	8028.0
32.5°	17181.8	17122.8	16808.5	16285.7	15639.0	15161.5	14477.0	13762.3	11971.8	11704.3	8599.2
35°	18360.4	18290.8	17908.6	17432.6	16761.7	16281.2	15457.7	14555.6	12833.1	12571.7	9171.9
37.5°	19221.6	19140.0	18747.2	18257.6	17678.9	17399.3	16595.5	15418.4	13772.9	13491.9	9774.8
40°	19520.8	19449.8	19203.5	18845.4	18380.0	18316.5	17802.8	16411.1	14795.9	14496.7	10457.7
42.5°	19342.5	19273.0	19185.4	19064.5	18871.1	18931.5	18942.1	17542.9	15932.2	15637.5	11211.7
45°	18635.4	18573.4	18664.1	18840.9	19081.1	19380.3	19981.7	18759.3	17201.4	16887.1	12083.6
47.5°	17594.3	17548.9	17799.8	18241.0	18943.6	19768.6	20932.1	20037.6	18626.3	18334.7	13171.5
50°	16113.5	16105.9	16607.6	17412.9	18493.3	19956.0	21914.3	21491.2	20605.7	20299.0	14684.1
52.5°	13807.7	13822.8	14809.5	16098.4	17703.1	19829.1	22545.9	23358.8	22908.5	22589.7	15994.1
55°	11612.2	11702.8	12402.4	14261.0	16491.2	19357.6	22763.5	24230.7	24179.3	23877.1	16722.4
57.5°	9462.0	9626.7	10300.6	12036.8	14721.8	18271.2	22644.1	24608.4	25125.2	24894.0	17683.4
60°	7132.0	7207.5	7984.2	9607.0	12450.8	16288.8	21778.3	24813.9	26418.6	26258.4	19078.1
62.5°	4537.6	4726.5	5415.5	6980.9	9694.7	13535.7	20318.6	24810.9	28036.9	28124.5	20877.7
65°	2390.4	2611.0	2976.7	4326.0	6662.1	10460.8	18123.1	24578.2	30022.4	30144.8	22284.5
67.5°	1288.9	1352.4	1545.8	2245.4	3863.7	7086.7	14897.1	23429.8	31172.3	31333.9	22480.9
70°	942.9	977.6	1050.2	1242.1	1944.7	4116.0	10870.2	20826.3	29690.0	29629.5	19974.1
72.5°	723.8	778.2	832.6	909.6	1118.2	2197.0	6767.8	16308.4	23689.7	23290.8	14930.3
75°	571.2	580.2	657.3	726.8	838.6	1251.1	3005.4	9498.2	14458.9	13514.5	7742.4
77.5°	456.3	462.4	507.7	568.1	673.9	822.0	930.8	3736.7	4616.2	4119.0	1680.2
80°	270.5	285.6	377.8	438.2	559.1	518.3	340.0	811.4	720.8	652.8	282.6
82.5°	151.1	163.2	213.1	346.0	389.8	247.8	169.2	219.1	169.2	164.7	80.1
85°	0.0	7.6	137.5	214.6	158.7	54.4	71.0	72.5	49.9	46.8	31.7
87.5°	0.0	0.0	42.3	40.8	6.0	9.1	16.6	24.2	19.6	19.6	16.6
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°	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3	2925.3
2.5°	2982.7	2901.2	2747.0	2595.9	2469.0	2364.7	2271.1	2233.3	2203.1	2198.5	2174.4
5°	3115.7	2951.0	2656.4	2414.6	2252.9	2138.1	2039.9	1979.4	1932.6	1914.5	1897.8
7.5°	3316.7	3067.4	2644.3	2366.3	2172.8	1979.4	1798.1	1601.7	1479.3	1432.4	1405.2
10°	3561.5	3221.5	2689.6	2352.7	2014.2	1606.2	1305.5	1056.2	955.0	921.7	912.7
12.5°	3847.0	3413.4	2768.2	2268.0	1675.7	1140.8	900.6	815.9	793.3	782.7	782.7
15°	4174.9	3623.4	2824.1	2023.3	1239.0	862.8	779.7	740.4	716.2	702.6	704.1
17.5°	4510.4	3828.9	2796.9	1668.2	914.2	767.6	705.6	663.3	630.1	616.5	613.5
20°	4848.9	4019.3	2645.8	1242.1	773.6	696.6	627.1	580.2	547.0	533.4	530.4
22.5°	5199.4	4181.0	2379.9	911.1	695.1	618.0	550.0	503.2	471.4	459.3	453.3
25°	5540.9	4312.4	2008.1	737.4	621.0	544.0	479.0	435.2	406.5	394.4	392.9
27.5°	5859.7	4395.5	1577.5	651.2	556.1	477.5	418.6	379.3	355.1	346.0	344.5
30°	6146.8	4403.1	1166.5	587.8	498.6	420.1	365.7	330.9	309.8	300.7	297.7
32.5°	6436.9	4339.6	849.2	530.4	445.7	370.2	317.3	290.1	275.0	267.4	267.4
35°	6710.4	4193.1	661.8	480.5	394.4	321.8	279.5	259.9	250.8	243.3	243.3
37.5°	6977.9	3983.0	562.1	436.7	346.0	281.0	246.3	234.2	226.7	219.1	219.1
40°	7249.9	3718.6	510.7	395.9	306.7	249.3	219.1	208.5	201.0	194.9	193.4
42.5°	7583.8	3413.4	477.5	358.1	272.0	220.6	193.4	181.3	175.3	169.2	166.2
45°	7970.6	3150.5	450.3	320.3	243.3	196.4	167.7	155.6	146.6	139.0	137.5
47.5°	8528.2	2960.1	414.0	279.5	216.1	170.7	145.1	131.5	117.9	110.3	108.8
50°	9239.9	2802.9	367.2	243.3	188.9	145.1	120.9	104.3	92.2	84.6	84.6
52.5°	9593.4	2597.4	324.9	211.5	158.7	122.4	98.2	78.6	72.5	65.0	65.0
55°	9735.5	2440.3	282.6	179.8	131.5	101.2	77.1	60.4	55.9	51.4	49.9
57.5°	10134.4	2395.0	246.3	152.6	108.8	80.1	58.9	45.3	42.3	36.3	36.3
60°	10776.6	2417.6	213.1	129.9	87.6	62.0	43.8	34.8	31.7	25.7	25.7
62.5°	11470.1	2388.9	179.8	111.8	68.0	45.3	30.2	25.7	25.7	15.1	13.6
65°	11603.1	2127.5	154.1	92.2	52.9	33.2	19.6	16.6	22.7	3.0	0.0
67.5°	10769.0	1650.0	133.0	71.0	39.3	25.7	15.1	7.6	19.6	0.0	0.0
70°	8611.3	1048.6	107.3	51.4	30.2	21.2	12.1	3.0	15.1	0.0	0.0
72.5°	6089.4	608.9	84.6	36.3	25.7	16.6	9.1	0.0	9.1	0.0	0.0
75°	3079.5	324.9	52.9	27.2	19.6	12.1	6.0	0.0	1.5	0.0	0.0
77.5°	666.4	151.1	33.2	19.6	13.6	7.6	3.0	0.0	0.0	0.0	0.0
80°	145.1	66.5	21.2	12.1	7.6	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	52.9	34.8	10.6	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.7	18.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	6.0	1.5	1.5	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)