

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: P321221

Luminaire Tested: **GAN-SA7D-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321221
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-SA7D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 37046 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

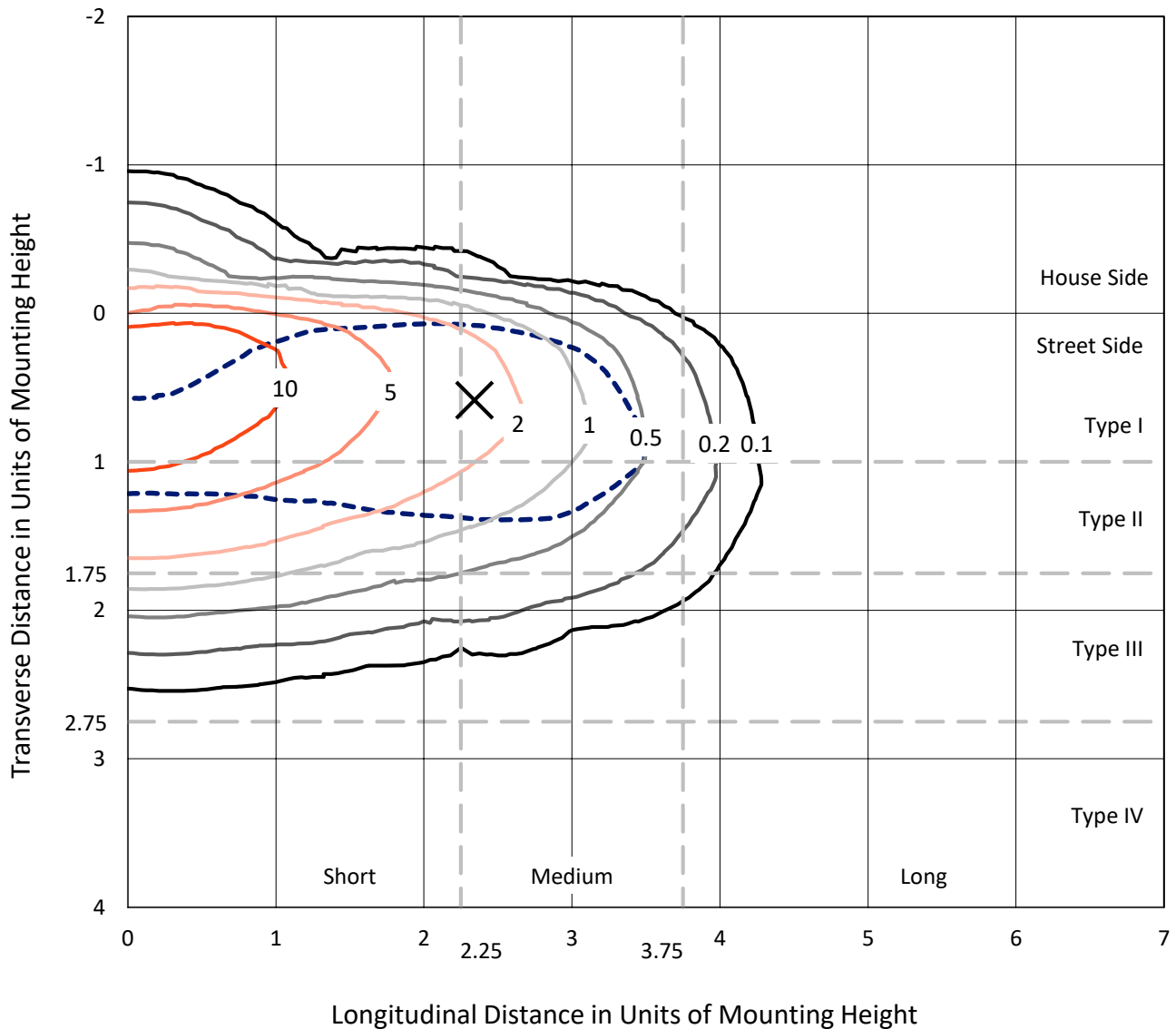
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

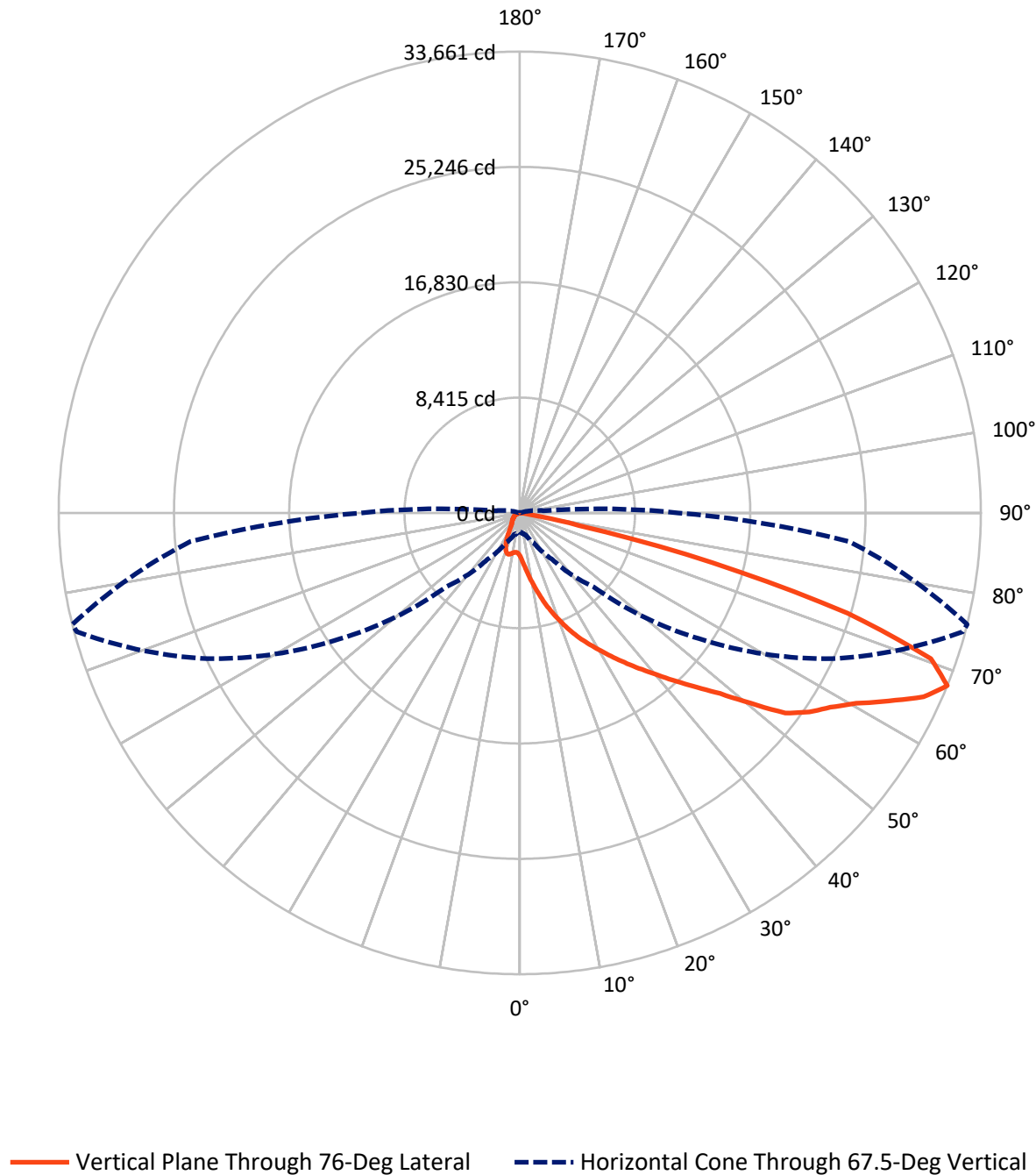
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	1839.6	0.0	1839.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35206.4	0.0	35206.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	37046.0	0.0	37046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	1.1
10°-20°	1549.1	4.2
20°-30°	3151.9	8.5
30°-40°	5470.6	14.8
40°-50°	7729.3	20.9
50°-60°	8765.4	23.7
60°-70°	7270.1	19.6
70°-80°	2633.4	7.1
80°-90°	85.4	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°	37046.0	100.0
0°-180°	37046.0	100.0

Coefficient of Utilization



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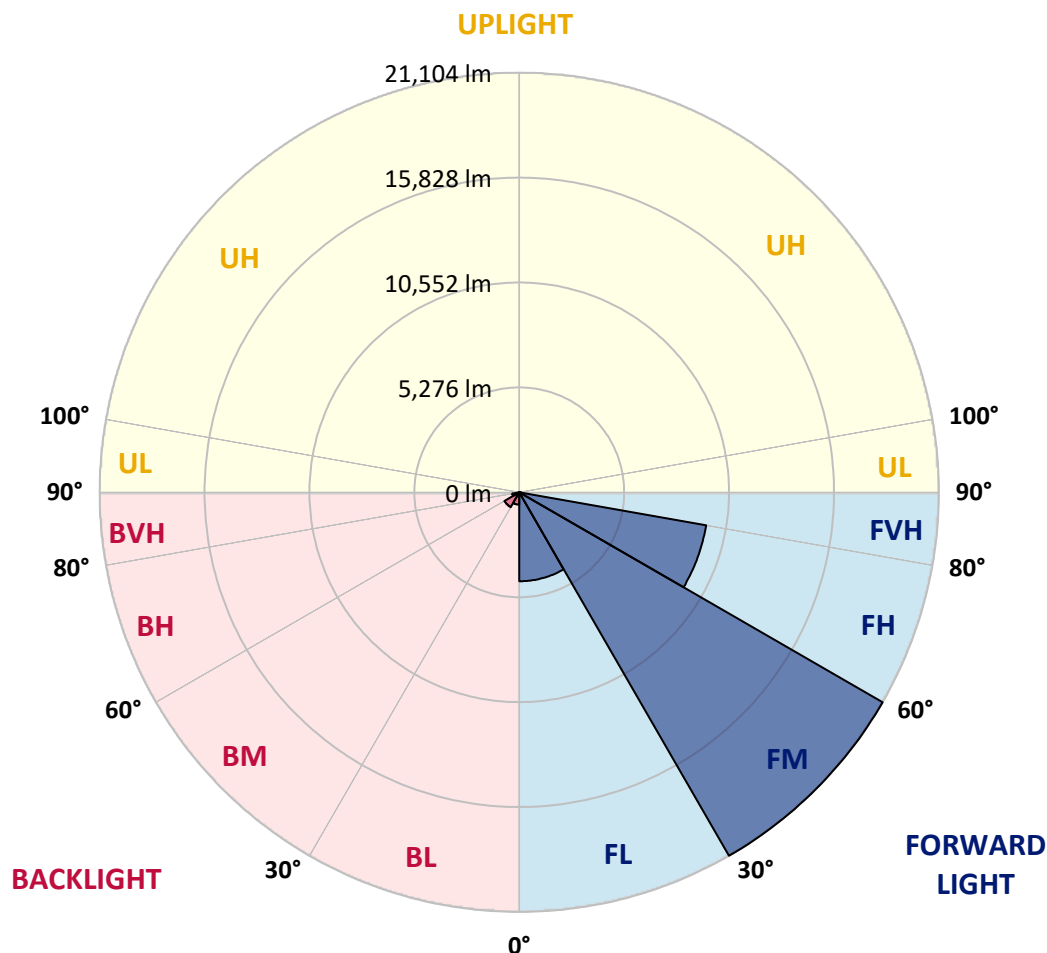
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4471.3	12.1			
FM	(30°-60°)	21104.4	57.0			
FH	(60°-80°)	9548.0	25.8			G4/12000
FVH	(80°-90°)	82.7	0.2			G1/100
BL	(0°-30°)	620.4	1.7	B2/1000		
BM	(30°-60°)	861.0	2.3	B1/1000		
BH	(60°-80°)	355.5	1.0	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6
2.5°	4691.1	4585.6	4610.0	4541.8	4418.4	4165.2	3949.3	3744.8	3506.2	3498.1	3301.7
5°	6325.7	6236.5	6225.1	6087.1	5863.1	5433.0	5014.2	4536.9	4004.5	3965.6	3548.4
7.5°	7809.4	7737.9	7712.0	7548.0	7130.9	6712.1	6166.7	5465.4	4632.7	4561.3	3881.1
10°	8948.9	8914.8	8921.3	8804.4	8447.3	8057.7	7341.9	6447.5	5345.3	5234.9	4280.5
12.5°	9812.4	9820.5	9879.0	9807.6	9607.9	9319.0	8554.4	7494.5	6134.2	5983.2	4736.6
15°	10447.1	10487.7	10594.8	10684.1	10669.5	10419.5	9718.3	8557.7	6971.8	6804.6	5244.7
17.5°	10857.8	10903.2	11059.1	11257.1	11438.9	11380.5	10841.6	9583.6	7819.1	7625.9	5788.4
20°	11218.1	11271.7	11438.9	11700.2	12039.5	12112.5	11758.7	10578.6	8664.8	8429.4	6350.1
22.5°	11998.9	11997.3	12099.6	12252.1	12575.2	12763.5	12539.5	11502.2	9500.8	9255.7	6923.1
25°	13411.1	13357.6	13321.9	13201.7	13273.2	13390.0	13265.0	12365.8	10341.6	10093.2	7504.2
27.5°	15089.5	15122.0	14833.1	14510.1	14260.1	14140.0	13935.4	13166.0	11150.0	10877.3	8072.3
30°	16860.5	16870.2	16529.4	16117.1	15566.8	15110.7	14756.8	13930.6	11981.1	11684.0	8624.2
32.5°	18457.8	18394.4	18056.8	17495.2	16800.4	16287.5	15552.2	14784.4	12860.9	12573.5	9237.8
35°	19723.9	19649.2	19238.5	18727.2	18006.5	17490.3	16605.6	15636.6	13786.1	13505.3	9853.0
37.5°	20649.1	20561.5	20139.4	19613.5	18991.8	18691.5	17827.9	16563.4	14795.7	14493.8	10500.7
40°	20970.5	20894.2	20629.6	20244.9	19745.0	19676.8	19124.9	17629.9	15894.7	15573.3	11234.4
42.5°	20779.0	20704.3	20610.2	20480.3	20272.5	20337.5	20348.8	18845.7	17115.3	16798.8	12044.4
45°	20019.3	19952.7	20050.1	20240.1	20498.2	20819.6	21465.6	20152.4	18478.9	18141.2	12981.0
47.5°	18900.9	18852.2	19121.7	19595.6	20350.4	21236.7	22486.6	21525.7	20009.6	19696.3	14149.7
50°	17310.1	17302.0	17840.9	18706.1	19866.7	21438.0	23541.7	23087.2	22136.0	21806.5	15774.6
52.5°	14833.1	14849.3	15909.3	17293.9	19017.8	21301.7	24220.2	25093.5	24609.8	24267.3	17181.9
55°	12474.5	12571.9	13323.5	15320.0	17715.9	20795.2	24454.0	26030.1	25974.9	25650.3	17964.3
57.5°	10164.7	10341.6	11065.6	12930.7	15815.1	19628.1	24325.7	26435.9	26991.1	26742.7	18996.7
60°	7661.6	7742.8	8577.1	10320.5	13375.4	17498.4	23395.6	26656.7	28380.6	28208.5	20494.9
62.5°	4874.6	5077.5	5817.7	7499.3	10414.6	14540.9	21827.6	26653.4	30119.0	30213.2	22428.2
65°	2568.0	2804.9	3197.8	4647.3	7156.8	11237.6	19469.0	26403.5	32252.0	32383.4	23939.4
67.5°	1384.6	1452.8	1660.6	2412.1	4150.6	7612.9	16003.4	25169.8	33487.2	33660.9	24150.4
70°	1012.9	1050.2	1128.1	1334.3	2089.1	4421.7	11677.5	22373.0	31894.9	31829.9	21457.5
72.5°	777.5	836.0	894.4	977.2	1201.2	2360.2	7270.4	17519.5	25449.0	25020.5	16039.1
75°	613.6	623.3	706.1	780.8	900.9	1344.0	3228.6	10203.6	15532.7	14518.2	8317.4
77.5°	490.2	496.7	545.4	610.3	724.0	883.0	999.9	4014.2	4959.0	4424.9	1805.0
80°	290.6	306.8	405.8	470.7	600.6	556.8	365.2	871.7	774.3	701.2	303.5
82.5°	162.3	175.3	228.9	371.7	418.8	266.2	181.8	235.4	181.8	176.9	86.0
85°	0.0	8.1	147.7	230.5	170.4	58.4	76.3	77.9	53.6	50.3	34.1
87.5°	0.0	0.0	45.5	43.8	6.5	9.7	17.9	26.0	21.1	21.1	17.9
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°	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6	3142.6
2.5°	3204.3	3116.6	2951.0	2788.7	2652.4	2540.4	2439.7	2399.1	2366.7	2361.8	2335.8
5°	3347.1	3170.2	2853.6	2593.9	2420.2	2296.9	2191.4	2126.4	2076.1	2056.6	2038.8
7.5°	3563.0	3295.2	2840.7	2542.0	2334.2	2126.4	1931.6	1720.6	1589.1	1538.8	1509.6
10°	3826.0	3460.7	2889.3	2527.4	2163.8	1725.5	1402.5	1134.6	1025.9	990.2	980.4
12.5°	4132.7	3666.9	2973.8	2436.5	1800.2	1225.5	967.4	876.5	852.2	840.8	840.8
15°	4485.0	3892.5	3033.8	2173.5	1331.0	926.9	837.6	795.4	769.4	754.8	756.4
17.5°	4845.3	4113.3	3004.6	1792.0	982.1	824.6	758.0	712.6	676.9	662.3	659.0
20°	5208.9	4317.8	2842.3	1334.3	831.1	748.3	673.6	623.3	587.6	573.0	569.8
22.5°	5585.5	4491.5	2556.6	978.8	746.7	663.9	590.9	540.5	506.4	493.5	487.0
25°	5952.4	4632.7	2157.3	792.1	667.1	584.4	514.6	467.5	436.6	423.7	422.0
27.5°	6294.9	4722.0	1694.7	699.6	597.3	512.9	449.6	407.4	381.5	371.7	370.1
30°	6603.3	4730.1	1253.1	631.4	535.7	451.3	392.8	355.5	332.8	323.0	319.8
32.5°	6915.0	4661.9	912.3	569.8	478.9	397.7	340.9	311.7	295.4	287.3	287.3
35°	7208.8	4504.5	711.0	516.2	423.7	345.7	300.3	279.2	269.5	261.3	261.3
37.5°	7496.1	4278.8	603.8	469.1	371.7	301.9	264.6	251.6	243.5	235.4	235.4
40°	7788.3	3994.8	548.7	425.3	329.5	267.8	235.4	224.0	215.9	209.4	207.8
42.5°	8147.0	3666.9	512.9	384.7	292.2	237.0	207.8	194.8	188.3	181.8	178.6
45°	8562.5	3384.4	483.7	344.1	261.3	211.0	180.2	167.2	157.5	149.3	147.7
47.5°	9161.5	3179.9	444.8	300.3	232.1	183.4	155.8	141.2	126.6	118.5	116.9
50°	9926.1	3011.1	394.4	261.3	202.9	155.8	129.9	112.0	99.0	90.9	90.9
52.5°	10305.9	2790.3	349.0	227.3	170.4	131.5	105.5	84.4	77.9	69.8	69.8
55°	10458.5	2621.5	303.5	193.2	141.2	108.8	82.8	64.9	60.1	55.2	53.6
57.5°	10887.0	2572.8	264.6	163.9	116.9	86.0	63.3	48.7	45.5	39.0	39.0
60°	11576.9	2597.2	228.9	139.6	94.1	66.6	47.1	37.3	34.1	27.6	27.6
62.5°	12321.9	2566.3	193.2	120.1	73.0	48.7	32.5	27.6	27.6	16.2	14.6
65°	12464.8	2285.5	165.6	99.0	56.8	35.7	21.1	17.9	24.3	3.2	0.0
67.5°	11568.8	1772.6	142.8	76.3	42.2	27.6	16.2	8.1	21.1	0.0	0.0
70°	9250.8	1126.5	115.2	55.2	32.5	22.7	13.0	3.2	16.2	0.0	0.0
72.5°	6541.6	654.2	90.9	39.0	27.6	17.9	9.7	0.0	9.7	0.0	0.0
75°	3308.1	349.0	56.8	29.2	21.1	13.0	6.5	0.0	1.6	0.0	0.0
77.5°	715.8	162.3	35.7	21.1	14.6	8.1	3.2	0.0	0.0	0.0	0.0
80°	155.8	71.4	22.7	13.0	8.1	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	56.8	37.3	11.4	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.8	19.5	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.2	6.5	1.6	1.6	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)