

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: P268911

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46509.5 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

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: 28.75 FT

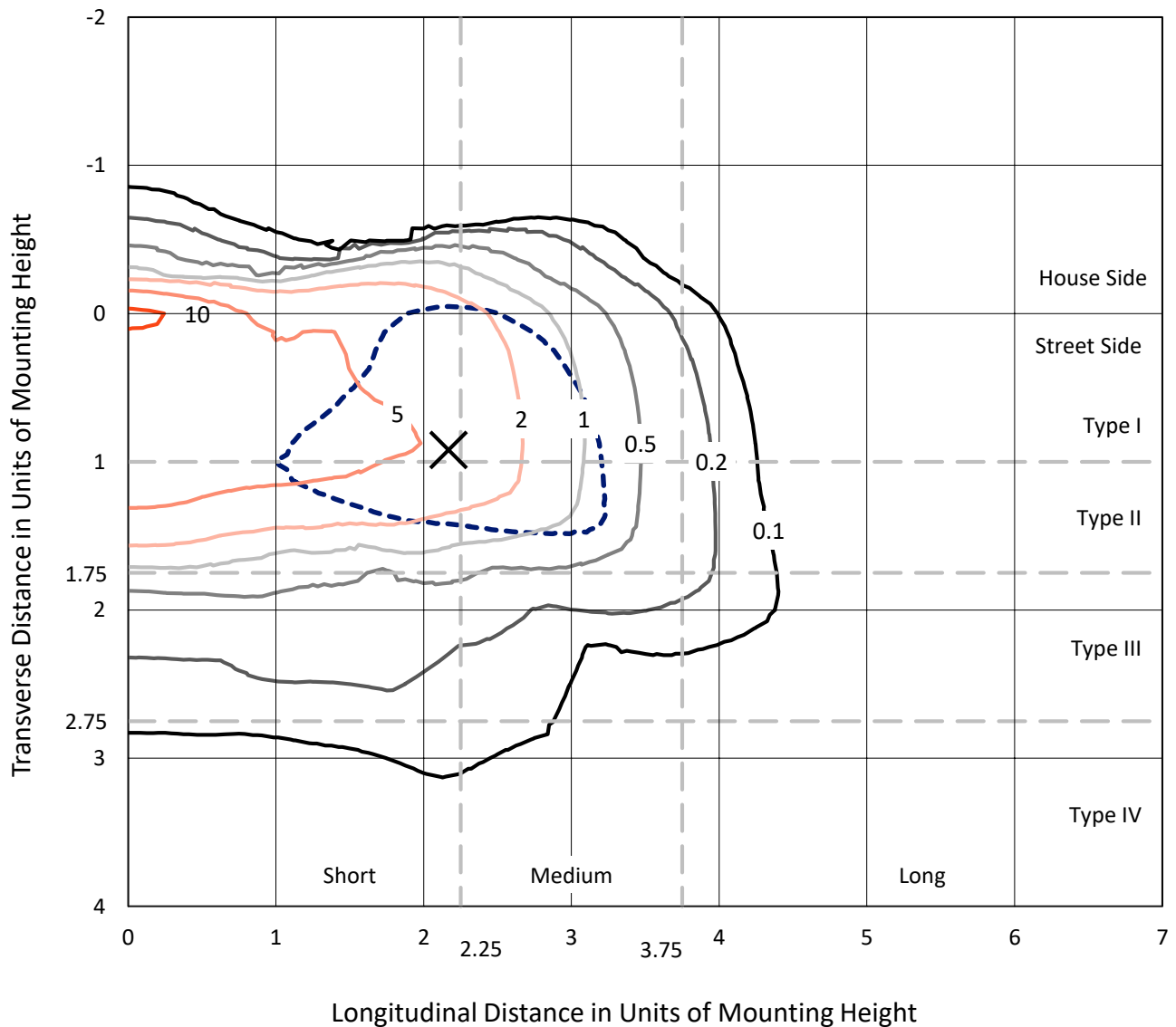


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

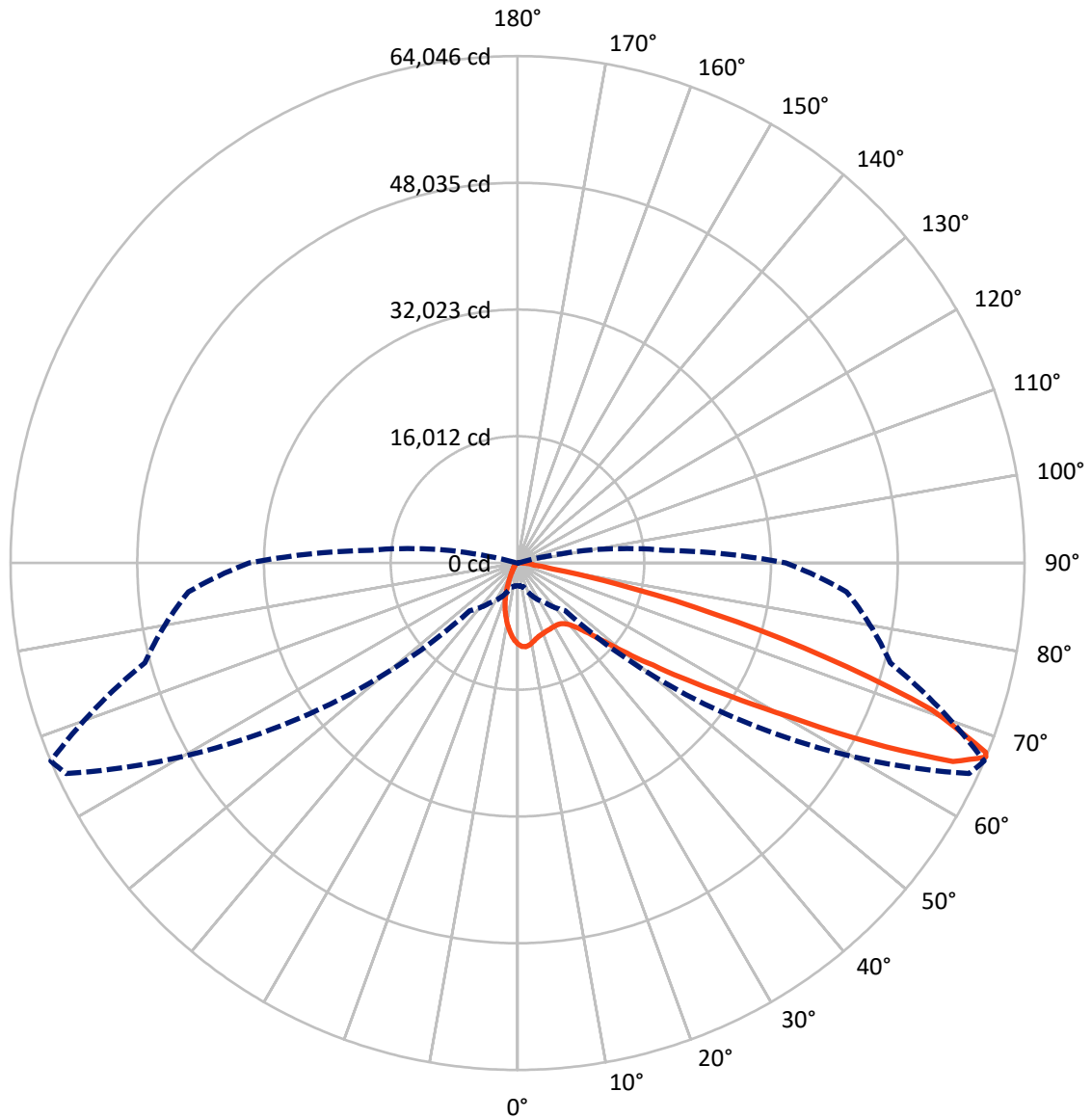


Based on 30 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4829.1	0.0	4829.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	41680.4	0.0	41680.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	46509.5	0.0	46509.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.6	1.8
10°-20°	1776.3	3.8
20°-30°	2582.7	5.6
30°-40°	4029.0	8.7
40°-50°	7137.3	15.3
50°-60°	11294.0	24.3
60°-70°	12935.7	27.8
70°-80°	5365.6	11.5
80°-90°	554.2	1.2
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°	46509.5	100.0
0°-180°	46509.5	100.0

Coefficient of Utilization



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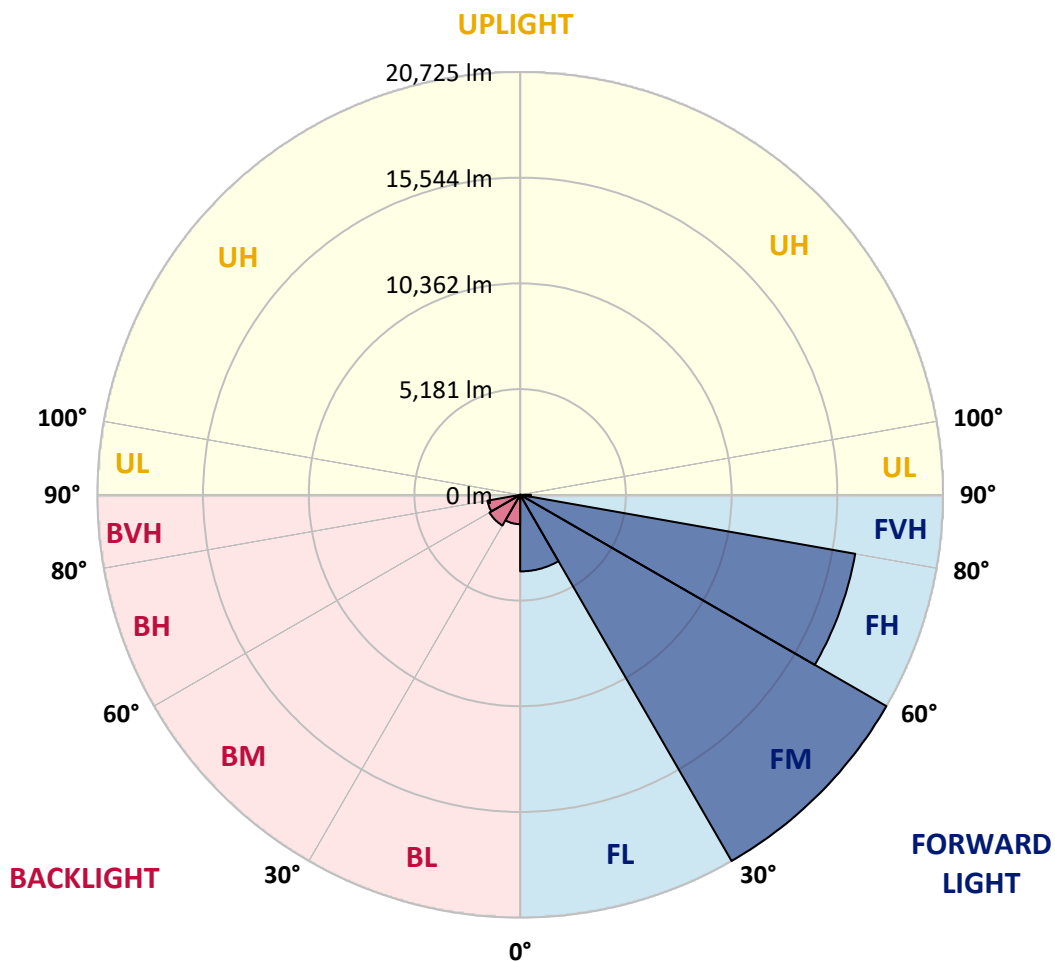
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3752.6	8.1			
FM (30°-60°)	20724.7	44.6			
FH (60°-80°)	16673.7	35.9			G5
FVH (80°-90°)	529.3	1.1			G4/750
BL (0°-30°)	1441.0	3.1	B3/2500		
BM (30°-60°)	1735.5	3.7	B2/2500		
BH (60°-80°)	1627.6	3.5	B3/2500		G3/2500
BVH (80°-90°)	25.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0
2.5°	10604.3	10626.1	10623.3	10639.5	10677.6	10680.3	10642.3	10569.0	10552.7	10457.8	10292.3
5°	9779.6	9842.0	9880.0	10034.5	10208.2	10417.1	10574.5	10631.4	10623.3	10555.4	10305.9
7.5°	8838.2	8900.6	8944.1	9125.8	9356.3	9714.5	10124.1	10460.6	10490.3	10563.6	10295.0
10°	8211.5	8222.5	8282.2	8455.7	8697.2	9063.4	9551.8	10140.3	10229.9	10498.5	10267.8
12.5°	7696.1	7704.4	7782.9	7970.2	8227.8	8596.8	9109.5	9790.4	9928.7	10417.1	10262.4
15°	7330.0	7359.9	7430.3	7625.6	7899.6	8265.8	8792.2	9532.8	9698.2	10387.3	10311.4
17.5°	7207.9	7240.3	7262.2	7403.2	7652.8	8010.8	8550.6	9364.6	9551.8	10403.5	10406.2
20°	7335.4	7359.9	7310.9	7346.2	7500.8	7821.0	8347.2	9220.7	9443.3	10422.6	10528.3
22.5°	7810.1	7821.0	7688.1	7533.5	7506.2	7682.7	8187.2	9106.8	9345.5	10474.1	10672.1
25°	8624.0	8605.0	8388.0	8054.3	7739.5	7658.2	8092.2	9036.3	9296.6	10528.3	10821.3
27.5°	9605.9	9633.2	9334.6	8849.2	8249.6	7821.0	8078.6	9006.4	9275.0	10566.4	10951.5
30°	10799.7	10837.6	10495.7	9885.4	9025.5	8222.5	8203.5	9001.0	9261.4	10541.9	10962.3
32.5°	12017.6	12063.8	11795.3	11165.8	10061.7	8895.2	8485.6	9060.8	9288.6	10457.8	10899.9
35°	13292.7	13357.7	13178.8	12639.0	11467.0	9866.4	8982.1	9242.5	9416.2	10449.7	10837.6
37.5°	15053.3	15112.9	14776.6	14204.2	13167.9	11168.5	9779.6	9584.2	9717.2	10579.9	10854.0
40°	17682.0	17673.9	16805.8	15929.6	15037.0	12823.3	10899.9	10202.8	10270.6	10973.2	11054.6
42.5°	20546.7	20533.1	19250.0	17918.0	17112.3	14860.7	12373.1	11271.7	11225.5	11697.5	11575.5
45°	22754.8	22752.1	21705.0	20204.9	19610.8	17199.0	14277.4	12758.3	12687.8	12874.9	12535.8
47.5°	23696.2	23712.5	23186.2	22131.0	22380.6	20362.2	16678.2	14912.3	14806.5	14730.4	14215.0
50°	22963.7	22996.3	23039.6	22833.6	24412.3	24613.1	19898.3	17947.7	17896.3	17557.2	16751.5
52.5°	20571.0	20736.6	21246.5	21900.4	25117.7	28693.1	24946.8	21718.6	21441.9	21081.1	20194.0
55°	16539.9	16721.6	17690.1	19277.1	24067.8	31373.5	32021.7	26579.9	26118.7	25041.7	23761.2
57.5°	10946.0	11228.3	12633.5	14651.7	21018.7	31804.8	39080.5	33326.6	31720.6	28771.9	27328.6
60°	6030.5	6301.8	7826.5	9654.9	15180.7	29672.5	43827.9	42110.7	39273.0	32941.3	31660.9
62.5°	3713.9	3860.2	4986.1	6687.1	9104.1	23419.5	44809.9	53148.9	49863.7	38309.9	36893.8
65°	2957.0	3019.4	3570.0	5466.2	6526.9	13930.1	41638.5	61564.0	60468.1	44809.9	41578.9
67°	2870.2	2894.6	3154.9	4693.1	6152.6	8539.8	34883.7	62933.9	64046.2	48743.4	41725.5
67.5°	2889.0	2916.3	3163.1	4478.8	6141.7	7848.1	32556.2	62394.1	63799.3	49055.4	41077.1
70°	2786.1	2870.2	3621.5	4476.2	5840.6	6521.5	19496.9	54060.4	55522.6	45580.3	34853.9
72.5°	987.4	992.8	1565.2	3621.5	6350.7	6592.1	9790.4	39631.2	40713.5	34867.5	25128.6
75°	586.0	499.2	520.8	1030.8	6068.5	6402.2	5648.1	25323.8	25728.0	19979.7	12725.7
77.5°	404.1	352.7	363.5	455.7	2311.2	6312.7	4486.9	13205.9	12774.5	7007.0	2710.0
80°	230.5	203.5	217.0	398.8	841.0	5889.5	4231.9	5355.1	4565.6	1188.2	748.7
82.5°	122.1	103.0	124.8	328.2	586.0	3670.5	4240.1	2587.9	2050.9	401.5	510.0
85°	43.4	35.3	59.6	225.1	390.7	1125.8	3930.9	2175.7	1709.0	195.3	387.9
87.5°	8.2	8.2	24.4	92.3	157.4	344.5	2324.9	1291.4	865.3	116.7	265.9
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°	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0	10257.0
2.5°	10224.5	10107.9	9950.5	9757.8	9529.9	9329.3	9180.0	9025.5	8992.9	8938.7	8930.5
5°	10156.6	9955.9	9565.3	9117.6	8640.3	8208.9	7858.9	7547.0	7408.6	7289.2	7275.7
7.5°	10056.3	9755.1	9090.6	8369.0	7622.9	6944.7	6369.6	5962.7	5588.4	5409.4	5382.1
10°	9939.7	9508.3	8556.1	7555.1	6524.3	5566.6	4712.1	3995.9	3561.9	3304.1	3271.6
12.5°	9831.1	9266.8	8010.8	6711.4	5341.5	4061.1	2962.4	2278.7	1823.0	1638.5	1616.8
15°	9779.6	9071.5	7500.8	5848.8	4104.4	2585.3	1619.6	1253.3	1104.0	1060.7	1057.9
17.5°	9774.2	8906.1	7001.7	4956.3	2875.6	1502.9	1055.2	963.1	933.2	922.4	922.4
20°	9771.5	8748.8	6502.6	4031.2	1825.7	1001.0	878.9	857.3	835.6	821.9	821.9
22.5°	9801.2	8607.6	5981.8	3087.1	1150.2	811.1	773.1	751.4	724.4	705.3	702.7
25°	9831.1	8499.1	5449.9	2197.3	832.8	705.3	667.4	637.4	599.4	575.2	572.4
27.5°	9836.6	8363.5	4880.3	1470.3	697.2	615.8	567.0	520.8	477.4	453.0	450.3
30°	9755.1	8135.7	4248.3	992.8	615.8	534.4	469.4	420.4	379.9	360.8	360.8
32.5°	9595.2	7853.5	3553.8	748.7	548.0	458.5	387.9	341.9	314.6	306.5	303.8
35°	9451.3	7549.6	2840.4	634.8	491.1	387.9	317.5	287.5	271.3	268.6	265.9
37.5°	9367.3	7305.6	2170.2	575.2	436.8	325.5	268.6	246.9	238.7	233.3	236.1
40°	9432.4	7102.1	1603.2	526.2	382.5	271.3	227.9	217.0	208.9	206.3	206.3
42.5°	9717.2	7066.8	1191.0	482.8	330.9	225.1	198.0	189.9	184.5	181.7	184.5
45°	10466.0	7283.8	925.1	442.1	279.5	189.9	168.3	165.5	162.8	162.8	162.8
47.5°	11591.8	7731.4	770.4	396.1	233.3	162.8	146.6	143.8	141.0	143.8	143.8
50°	13498.8	8550.6	689.0	350.0	192.5	138.3	124.8	124.8	124.8	124.8	127.5
52.5°	16398.7	10162.0	634.8	303.8	157.4	116.7	105.8	105.8	108.5	108.5	111.2
55°	19629.8	12299.9	586.0	257.8	132.9	97.6	86.7	89.6	92.3	95.0	95.0
57.5°	23134.7	14668.1	545.4	211.6	113.9	78.7	73.2	75.9	78.7	84.1	84.1
60°	27363.9	17231.6	485.7	165.5	95.0	62.4	57.0	62.4	70.5	75.9	78.7
62.5°	32008.1	19711.1	409.6	130.3	78.7	48.9	46.2	57.0	67.8	73.2	75.9
65°	35182.2	20489.7	314.6	105.8	59.6	35.3	38.0	51.6	65.0	73.2	73.2
67°	33896.3	18577.2	257.8	89.6	48.9	27.0	35.3	51.6	65.0	70.5	73.2
67.5°	33003.8	17828.4	246.9	86.7	46.2	27.0	35.3	51.6	65.0	73.2	73.2
70°	26853.9	13393.0	206.3	65.0	38.0	24.4	29.9	48.9	62.4	70.5	70.5
72.5°	18658.5	8257.7	184.5	46.2	32.6	21.6	27.0	46.2	59.6	67.8	70.5
75°	8870.9	2989.5	157.4	35.3	29.9	19.0	24.4	46.2	59.6	67.8	67.8
77.5°	1809.5	694.5	127.5	29.9	24.4	19.0	21.6	43.4	57.0	65.0	65.0
80°	594.0	268.6	95.0	27.0	24.4	19.0	21.6	40.8	57.0	62.4	65.0
82.5°	428.6	135.6	62.4	27.0	24.4	19.0	19.0	40.8	54.3	62.4	62.4
85°	328.2	95.0	40.8	27.0	24.4	19.0	19.0	38.0	51.6	59.6	59.6
87.5°	217.0	38.0	32.6	27.0	24.4	19.0	19.0	38.0	48.9	57.0	59.6
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)