

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: P323143

Luminaire Tested: **GAN-SA9D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 48047 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

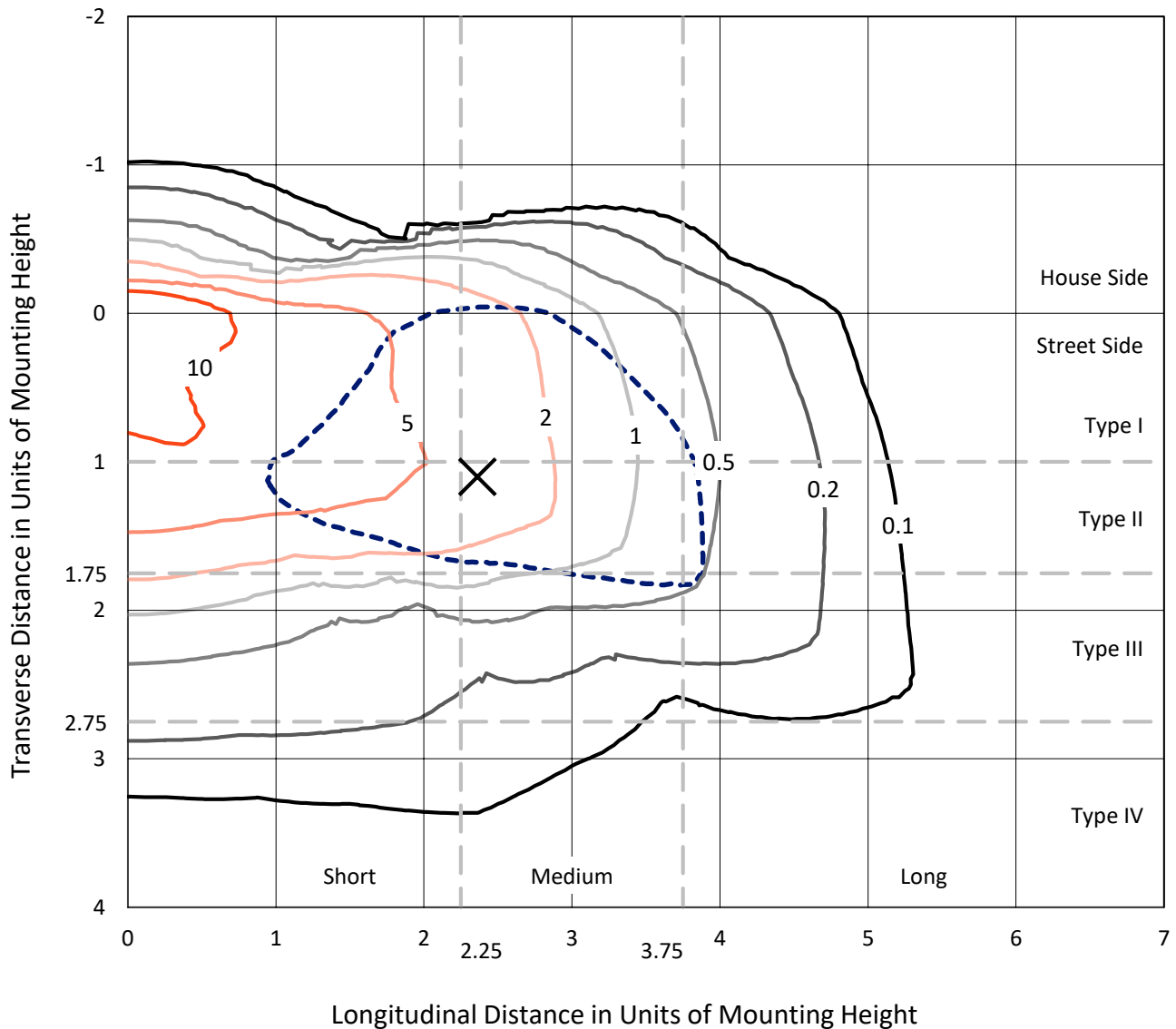
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

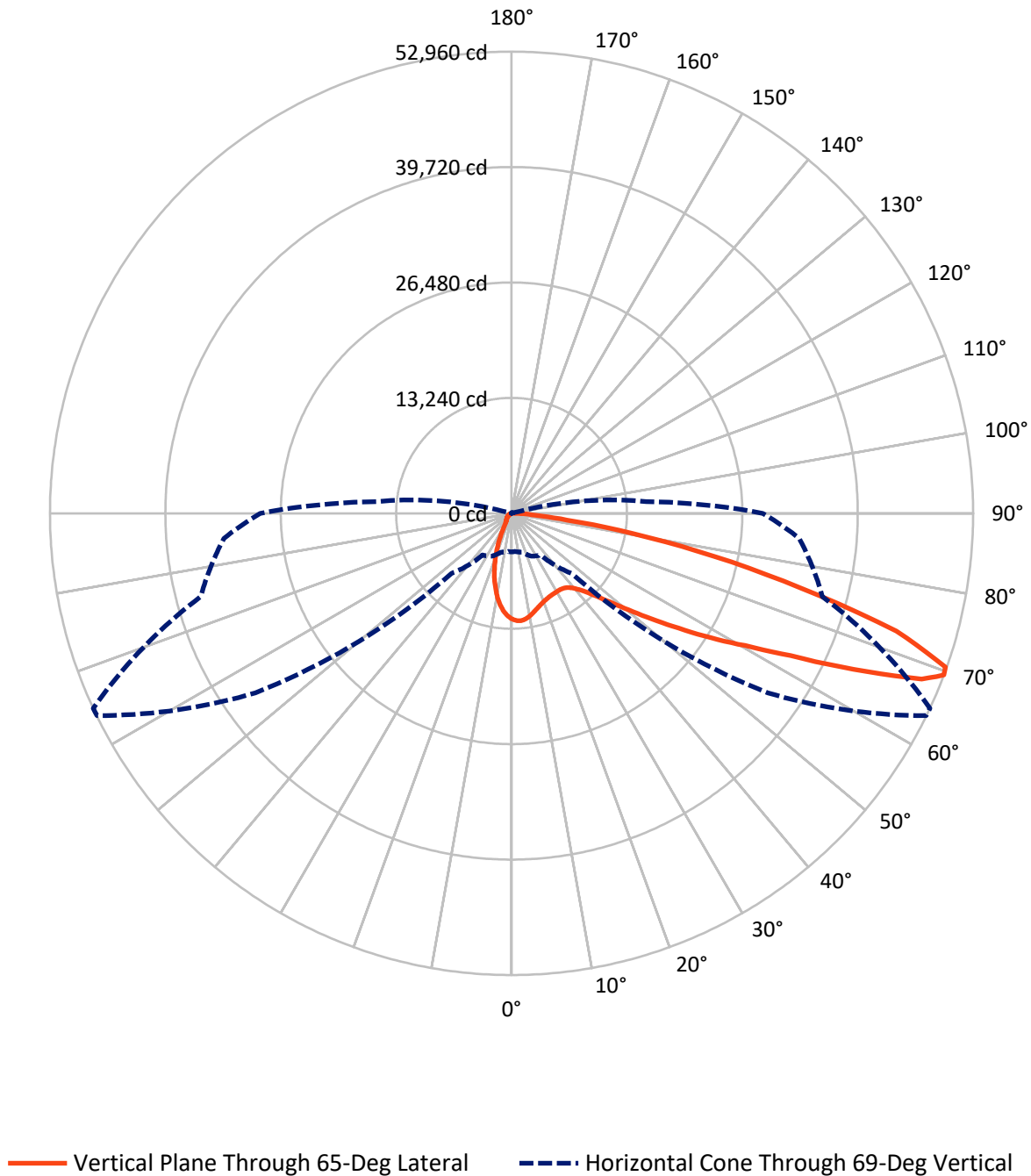
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5663.6	0.0	5663.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	42383.4	0.0	42383.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	48047.0	0.0	48047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1015.3	2.1
10°-20°	2222.5	4.6
20°-30°	3078.3	6.4
30°-40°	4292.1	8.9
40°-50°	6671.3	13.9
50°-60°	10710.0	22.3
60°-70°	12114.8	25.2
70°-80°	7115.1	14.8
80°-90°	827.7	1.7
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°	48047.0	100.0
0°-180°	48047.0	100.0

Coefficient of Utilization



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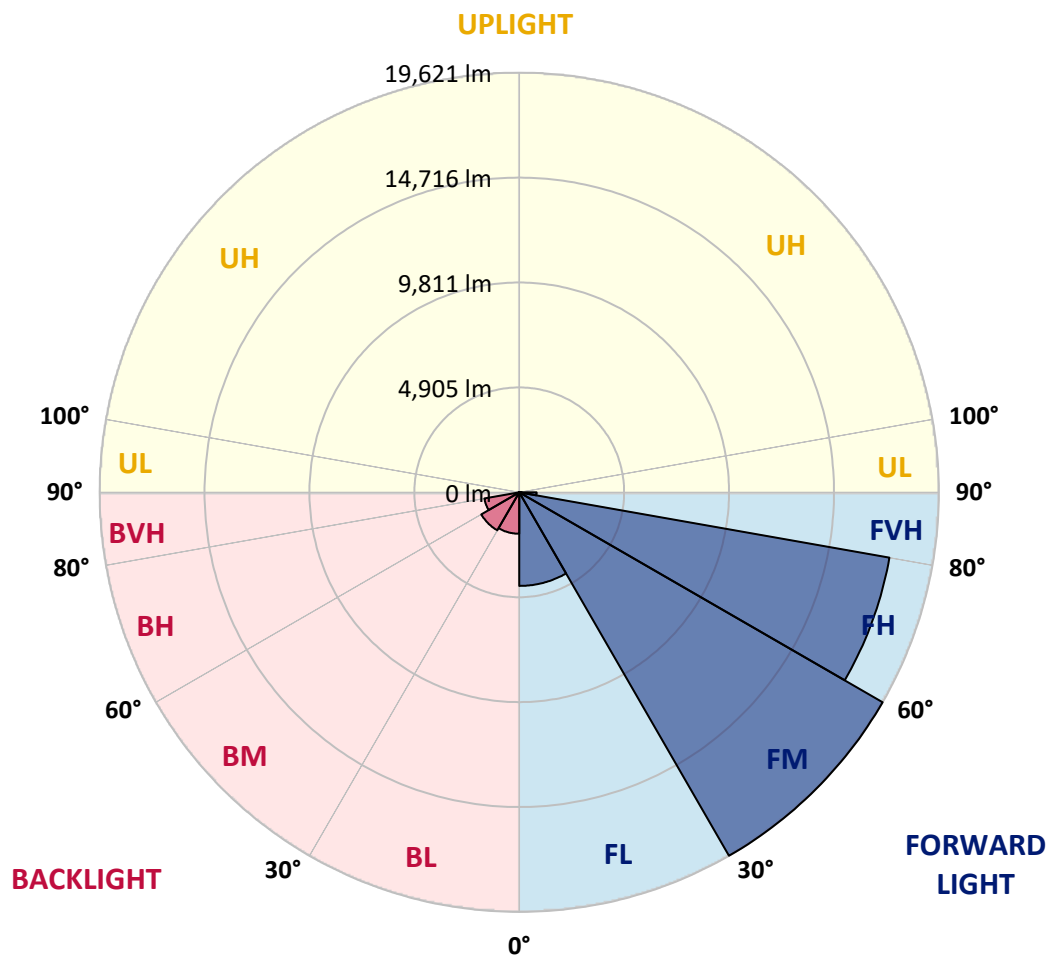
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4378.2	9.1			
FM	(30°-60°)	19621.0	40.8			
FH	(60°-80°)	17575.1	36.6			G5
FVH	(80°-90°)	809.1	1.7			G5
BL	(0°-30°)	1937.8	4.0	B3/2500		
BM	(30°-60°)	2052.3	4.3	B2/2500		
BH	(60°-80°)	1654.8	3.4	B3/2500		G3/2500
BVH	(80°-90°)	18.6	0.0			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6
2.5°	12249.3	12218.8	12243.2	12296.1	12322.5	12322.5	12342.8	12318.4	12326.6	12267.6	12182.2
5°	11482.8	11436.1	11503.2	11651.6	11834.6	11991.1	12222.9	12344.9	12357.1	12359.1	12259.5
7.5°	10657.4	10614.7	10714.3	10889.2	11125.0	11415.8	11820.3	12174.1	12194.4	12385.5	12312.3
10°	9986.5	9956.0	10071.9	10258.9	10535.4	10860.7	11356.8	11848.8	11907.8	12330.6	12304.2
12.5°	9453.8	9429.4	9539.2	9754.7	10037.3	10397.2	10915.6	11486.9	11566.2	12206.6	12263.5
15°	9065.5	9061.4	9152.9	9360.3	9673.4	10008.9	10539.5	11151.5	11242.9	12072.4	12257.4
17.5°	8862.2	8868.3	8935.4	9112.3	9380.6	9714.1	10222.3	10868.9	10968.5	11952.5	12287.9
20°	8841.9	8848.0	8884.6	8984.2	9201.7	9496.5	9964.1	10631.0	10734.7	11863.0	12336.7
22.5°	9020.8	9016.7	9026.9	9016.7	9138.7	9362.3	9793.4	10448.0	10568.0	11804.1	12375.4
25°	9364.4	9358.3	9354.2	9279.0	9197.7	9317.6	9722.2	10344.3	10458.2	11761.4	12397.7
27.5°	9842.1	9838.1	9832.0	9708.0	9464.0	9388.8	9730.3	10305.7	10401.2	11726.8	12393.7
30°	10470.4	10498.8	10490.7	10317.9	9937.7	9606.3	9815.7	10285.4	10368.7	11659.7	12351.0
32.5°	11208.4	11265.3	11310.0	11125.0	10649.3	10037.3	10012.9	10307.7	10368.7	11608.9	12273.7
35°	11974.8	12048.0	12212.7	12147.7	11521.5	10685.9	10352.4	10441.9	10492.7	11637.4	12237.1
37.5°	12729.1	12816.5	13174.4	13363.4	12664.1	11543.8	10881.1	10773.3	10799.7	11810.2	12277.8
40°	13605.4	13737.5	14280.4	14585.3	14028.3	12692.5	11671.9	11342.6	11352.7	12190.4	12466.9
42.5°	14756.1	14892.3	15479.9	15957.7	15565.3	14144.1	12745.4	12212.7	12202.6	12901.9	12912.1
45°	16158.9	16301.2	16909.1	17439.8	17262.9	15864.1	14119.7	13483.4	13471.2	14024.2	13755.8
47.5°	17748.8	17889.1	18431.9	18978.8	19169.9	17872.8	15870.2	15217.6	15189.1	15583.6	15059.0
50°	19113.0	19204.5	19704.6	20440.6	21302.6	20341.0	18047.7	17419.4	17388.9	17655.3	16972.2
52.5°	19609.1	19661.9	20170.2	21201.0	23352.0	23683.4	20908.2	20099.0	20076.7	20192.6	19519.6
55°	18604.7	18700.3	19324.4	20853.3	24462.0	27460.8	24519.0	23417.0	23248.3	22998.2	22182.9
57.5°	15868.2	16020.7	16691.6	18724.7	23943.6	30457.6	29825.3	27170.1	26922.1	25393.2	24348.2
60°	11889.5	12076.5	12633.6	14827.3	21176.6	31525.0	35623.6	31352.1	30793.0	27300.2	26338.6
62.5°	8158.8	8252.3	8630.4	10059.7	15595.8	29776.5	40474.6	36953.3	35932.7	29374.0	28491.6
65°	6231.4	6263.9	6418.4	6910.4	9287.1	24187.6	42404.0	44343.5	43109.5	31854.3	30726.0
67.5°	5021.7	4995.3	5208.8	5912.2	6219.2	14756.1	40153.4	51335.3	50757.9	35170.3	32974.5
69°	4428.1	4391.5	4609.0	5426.3	5841.0	9754.7	35896.1	52923.1	52959.7	36920.8	33129.1
70°	3984.8	4009.2	4224.7	5137.6	5713.0	7656.6	31829.9	52518.6	52807.3	37575.4	32202.0
72.5°	2661.3	2726.4	3159.4	4265.4	5493.4	5794.3	19218.7	45067.3	46177.4	36101.4	27627.5
75°	1500.4	1549.2	2063.6	3216.3	5176.2	5517.8	10151.2	33202.2	34275.7	30189.2	21304.7
77.5°	736.0	762.4	1167.0	2075.8	4328.4	5257.5	5757.7	22553.0	23778.9	19704.6	12050.1
80°	311.1	325.3	583.5	1280.8	3094.3	5017.6	4275.6	13879.8	14032.3	7719.6	3210.2
82.5°	120.0	124.0	246.0	799.0	1966.0	3911.6	3576.2	6581.1	6422.5	1453.7	731.9
85°	14.2	16.3	89.5	479.8	1093.8	2012.8	2905.3	2836.1	2624.7	288.7	376.1
87.5°	0.0	0.0	6.1	146.4	325.3	943.3	1510.6	1177.2	1061.3	93.5	195.2
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°	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6	12141.6
2.5°	12111.1	12090.7	11980.9	11822.4	11671.9	11484.9	11306.0	11198.2	11112.8	11055.9	11123.0
5°	12143.6	12054.1	11720.7	11293.8	10875.0	10403.3	9964.1	9592.1	9445.7	9283.0	9356.2
7.5°	12133.4	11964.7	11364.9	10604.6	9836.0	9041.1	8288.9	7709.4	7408.5	7113.8	7189.0
10°	12082.6	11798.0	10889.2	9762.9	8612.1	7469.5	6402.2	5591.0	5137.6	4726.9	4785.9
12.5°	11970.8	11574.3	10328.1	8799.2	7260.1	5753.6	4503.3	3464.4	2907.3	2661.3	2691.8
15°	11903.7	11356.8	9734.4	7823.3	5816.6	4007.2	2752.8	2047.3	1793.2	1711.9	1722.0
17.5°	11871.2	11147.4	9120.4	6707.1	4340.6	2551.5	1778.9	1569.5	1514.6	1500.4	1504.5
20°	11838.6	10935.9	8488.1	5603.2	2990.7	1715.9	1461.8	1400.8	1380.5	1362.2	1366.2
22.5°	11783.7	10732.6	7809.1	4485.0	2016.8	1392.7	1317.4	1258.5	1215.8	1193.4	1197.5
25°	11716.6	10519.2	7115.8	3340.4	1472.0	1242.2	1171.1	1087.7	1036.9	996.2	998.2
27.5°	11608.9	10256.9	6400.1	2431.6	1236.1	1112.1	1016.5	925.1	839.7	792.9	792.9
30°	11458.4	9960.1	5605.2	1740.3	1108.0	984.0	868.1	754.3	662.8	620.1	616.0
32.5°	11291.7	9651.0	4802.1	1319.5	1006.4	864.1	731.9	612.0	530.6	496.1	494.0
35°	11149.4	9317.6	4001.1	1106.0	904.7	748.2	603.8	502.2	437.1	408.6	406.6
37.5°	11057.9	8984.2	3220.4	988.1	813.2	640.4	506.2	414.7	368.0	345.6	343.6
40°	11043.7	8736.2	2506.8	898.6	727.8	544.9	422.9	351.7	309.0	284.6	282.6
42.5°	11228.7	8593.8	1923.3	823.4	640.4	461.5	359.9	300.9	256.2	231.8	229.7
45°	11714.6	8638.6	1480.1	756.3	553.0	390.4	305.0	250.1	209.4	191.1	187.0
47.5°	12601.0	8947.6	1177.2	689.2	469.6	331.4	260.2	207.4	172.8	154.5	152.5
50°	14178.7	9673.4	984.0	616.0	392.4	282.6	215.5	168.7	140.3	124.0	122.0
52.5°	16272.8	10966.4	878.3	544.9	325.3	239.9	176.9	134.2	109.8	97.6	95.6
55°	18582.4	12531.9	809.2	467.6	266.3	199.2	140.3	105.7	85.4	75.2	71.2
57.5°	20837.0	13888.0	744.1	392.4	221.6	162.6	111.8	83.4	67.1	56.9	54.9
60°	22908.8	15134.3	668.9	315.1	180.9	128.1	87.4	65.1	52.9	42.7	42.7
62.5°	25126.9	16097.9	565.2	246.0	148.4	97.6	71.2	59.0	42.7	36.6	34.6
65°	27477.1	16813.6	443.2	191.1	115.9	73.2	59.0	61.0	34.6	26.4	24.4
67.5°	29213.3	16671.3	327.3	150.4	89.5	56.9	56.9	65.1	30.5	20.3	18.3
69°	28831.1	15514.4	274.5	130.1	77.3	48.8	52.9	65.1	28.5	18.3	16.3
70°	27723.1	14233.6	241.9	115.9	69.1	44.7	50.8	63.0	26.4	18.3	16.3
72.5°	23087.7	10720.4	189.1	87.4	54.9	36.6	42.7	54.9	26.4	18.3	14.2
75°	17366.6	6861.6	144.3	63.0	40.7	28.5	32.5	40.7	26.4	16.3	14.2
77.5°	9449.8	2474.3	103.7	42.7	28.5	22.4	22.4	30.5	24.4	12.2	8.1
80°	2429.5	622.1	65.1	28.5	22.4	16.3	14.2	20.3	14.2	2.0	0.0
82.5°	599.8	140.3	34.6	20.3	16.3	6.1	6.1	10.2	6.1	0.0	0.0
85°	329.4	69.1	22.4	14.2	8.1	0.0	0.0	2.0	0.0	0.0	0.0
87.5°	168.7	20.3	6.1	4.1	2.0	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)