

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: P323139

Luminaire Tested: **GAN-SA5D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323139
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-SA5D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 26863 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

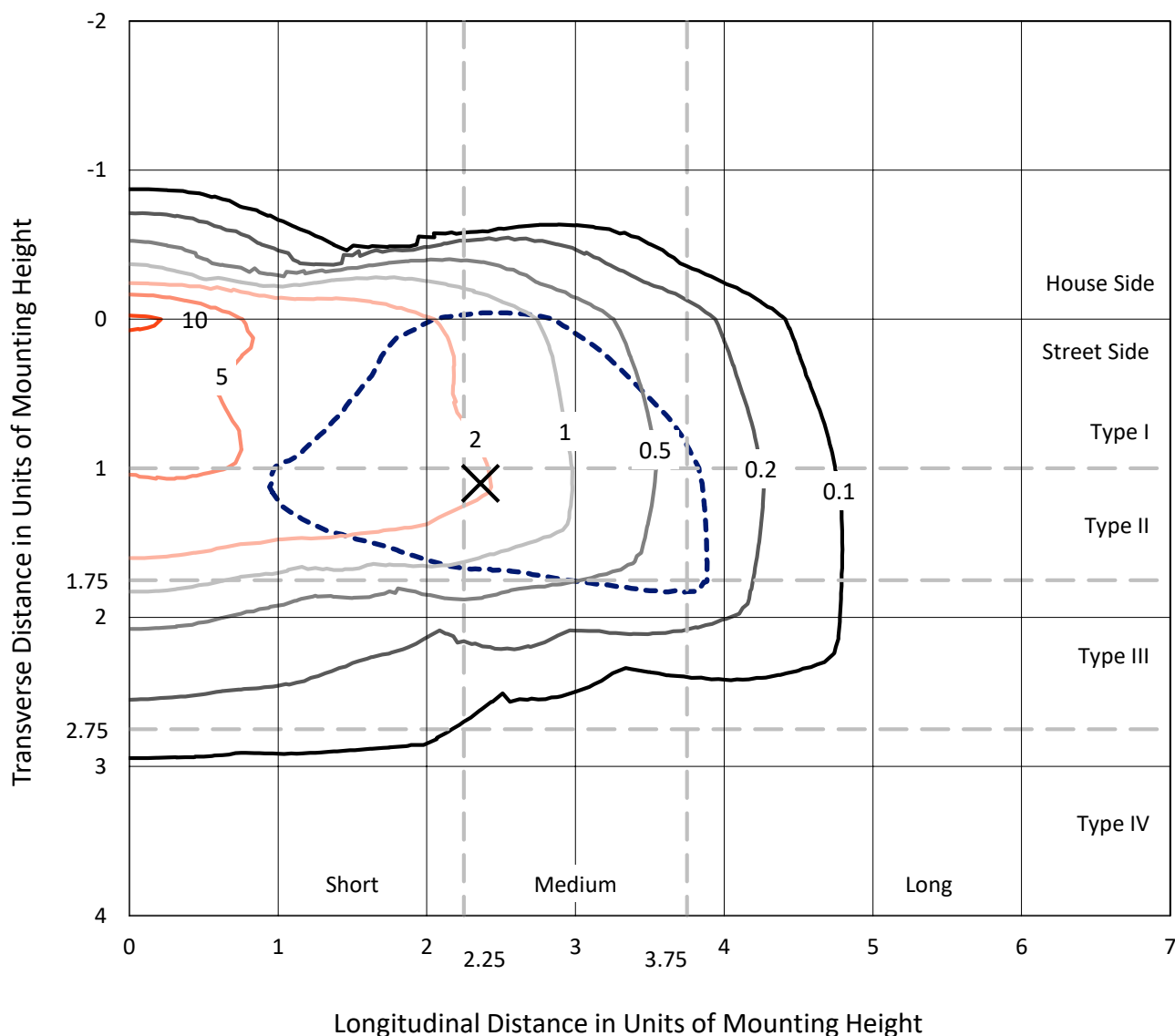
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

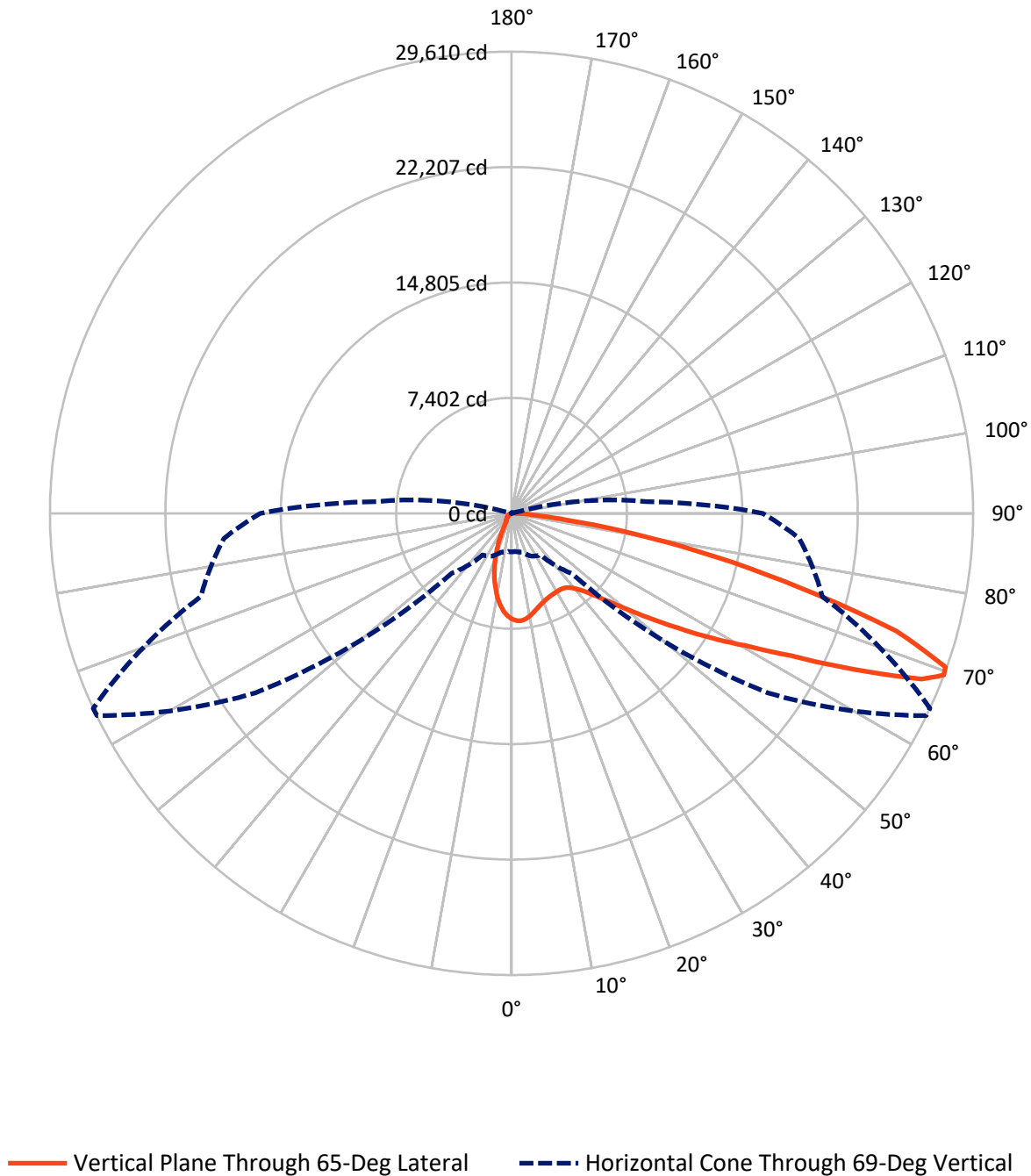
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	3166.5	0.0	3166.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	23696.5	0.0	23696.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	26863.0	0.0	26863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	2.1
10°-20°	1242.6	4.6
20°-30°	1721.0	6.4
30°-40°	2399.7	8.9
40°-50°	3729.9	13.9
50°-60°	5987.9	22.3
60°-70°	6773.4	25.2
70°-80°	3978.1	14.8
80°-90°	462.7	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°	26863.0	100.0
0°-180°	26863.0	100.0

Coefficient of Utilization



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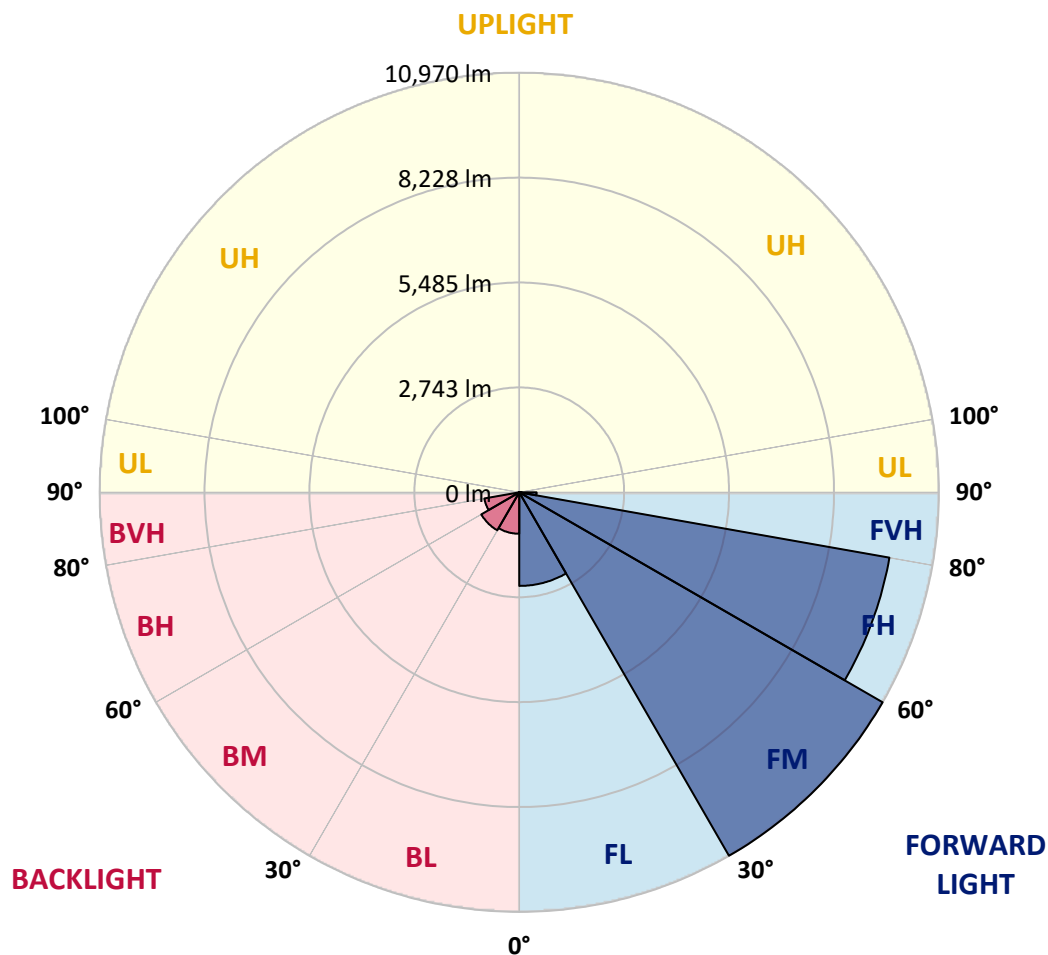
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2447.8	9.1			
FM	(30°-60°)	10970.1	40.8			
FH	(60°-80°)	9826.2	36.6			G4/12000
FVH	(80°-90°)	452.3	1.7			G3/500
BL	(0°-30°)	1083.4	4.0	B3/2500		
BM	(30°-60°)	1147.5	4.3	B2/2500		
BH	(60°-80°)	925.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	10.4	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3
2.5°	6848.6	6831.5	6845.2	6874.7	6889.5	6889.5	6900.9	6887.2	6891.8	6858.8	6811.1
5°	6420.0	6393.9	6431.4	6514.4	6616.7	6704.2	6833.8	6902.0	6908.8	6910.0	6854.3
7.5°	5958.5	5934.7	5990.4	6088.1	6220.0	6382.5	6608.7	6806.5	6817.9	6924.7	6883.8
10°	5583.4	5566.4	5631.2	5735.7	5890.3	6072.2	6349.6	6624.6	6657.6	6894.0	6879.3
12.5°	5285.6	5272.0	5333.4	5453.9	5611.9	5813.0	6102.9	6422.3	6466.6	6824.7	6856.5
15°	5068.5	5066.2	5117.4	5233.3	5408.4	5595.9	5892.6	6234.8	6285.9	6749.7	6853.1
17.5°	4954.8	4958.3	4995.8	5094.7	5244.7	5431.1	5715.3	6076.8	6132.5	6682.6	6870.2
20°	4943.5	4946.9	4967.3	5023.0	5144.7	5309.5	5570.9	5943.8	6001.7	6632.6	6897.4
22.5°	5043.5	5041.2	5046.9	5041.2	5109.4	5234.5	5475.4	5841.5	5908.5	6599.6	6919.0
25°	5235.6	5232.2	5229.9	5187.9	5142.4	5209.5	5435.7	5783.5	5847.1	6575.8	6931.6
27.5°	5502.7	5500.5	5497.0	5427.7	5291.3	5249.2	5440.2	5761.9	5815.3	6556.4	6929.3
30°	5854.0	5869.9	5865.3	5768.7	5556.2	5370.9	5488.0	5750.5	5797.1	6518.9	6905.4
32.5°	6266.6	6298.4	6323.4	6220.0	5954.0	5611.9	5598.2	5763.0	5797.1	6490.5	6862.2
35°	6695.1	6736.0	6828.1	6791.7	6441.6	5974.5	5788.0	5838.1	5866.5	6506.4	6841.8
37.5°	7116.8	7165.7	7365.8	7471.5	7080.5	6454.1	6083.6	6023.3	6038.1	6603.0	6864.5
40°	7606.7	7680.6	7984.1	8154.6	7843.2	7096.4	6525.8	6341.6	6347.3	6815.6	6970.2
42.5°	8250.1	8326.3	8654.8	8921.9	8702.5	7908.0	7125.9	6828.1	6822.4	7213.5	7219.1
45°	9034.4	9114.0	9453.9	9750.5	9651.7	8869.6	7894.3	7538.5	7531.7	7840.9	7690.9
47.5°	9923.3	10001.8	10305.3	10611.0	10717.9	9992.7	8873.0	8508.1	8492.2	8712.7	8419.5
50°	10686.0	10737.2	11016.8	11428.3	11910.3	11372.6	10090.4	9739.2	9722.1	9871.0	9489.1
52.5°	10963.4	10993.0	11277.1	11853.4	13056.0	13241.3	11689.7	11237.3	11224.8	11289.6	10913.4
55°	10401.9	10455.3	10804.3	11659.1	13676.7	15353.3	13708.5	13092.4	12998.1	12858.3	12402.5
57.5°	8871.9	8957.1	9332.2	10468.9	13386.8	17028.8	16675.3	15190.8	15052.1	14197.3	13613.0
60°	6647.4	6752.0	7063.4	8289.9	11839.8	17625.6	19917.1	17528.9	17216.3	15263.5	14725.9
62.5°	4561.5	4613.8	4825.3	5624.4	8719.6	16648.0	22629.3	20660.5	20089.9	16422.9	15929.6
65°	3484.0	3502.1	3588.5	3863.6	5192.4	13523.2	23708.0	24792.4	24102.4	17809.7	17178.8
67.5°	2807.6	2792.9	2912.2	3305.5	3477.1	8250.1	22449.7	28701.5	28378.7	19663.6	18436.0
69°	2475.7	2455.3	2576.9	3033.8	3265.7	5453.9	20069.4	29589.2	29609.7	20642.3	18522.4
70°	2227.9	2241.6	2362.0	2872.4	3194.1	4280.8	17796.1	29363.0	29524.4	21008.3	18004.1
72.5°	1487.9	1524.3	1766.4	2384.8	3071.3	3239.6	10745.2	25197.1	25817.7	20184.2	15446.5
75°	838.9	866.2	1153.7	1798.2	2894.0	3085.0	5675.5	18563.3	19163.5	16878.7	11911.4
77.5°	411.5	426.3	652.5	1160.6	2420.0	2939.5	3219.1	12609.3	13294.8	11016.8	6737.2
80°	173.9	181.9	326.2	716.1	1730.0	2805.4	2390.5	7760.2	7845.5	4316.0	1794.8
82.5°	67.1	69.3	137.5	446.7	1099.2	2187.0	1999.4	3679.5	3590.8	812.7	409.2
85°	8.0	9.1	50.0	268.3	611.5	1125.3	1624.3	1585.7	1467.5	161.4	210.3
87.5°	0.0	0.0	3.4	81.8	181.9	527.4	844.6	658.1	593.4	52.3	109.1
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°	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3	6788.3
2.5°	6771.3	6759.9	6698.5	6609.9	6525.8	6421.2	6321.1	6260.9	6213.2	6181.3	6218.8
5°	6789.5	6739.4	6553.0	6314.3	6080.2	5816.5	5570.9	5362.9	5281.1	5190.1	5231.1
7.5°	6783.8	6689.4	6354.1	5929.0	5499.3	5054.9	4634.3	4310.3	4142.1	3977.3	4019.3
10°	6755.4	6596.2	6088.1	5458.4	4815.0	4176.2	3579.4	3125.9	2872.4	2642.8	2675.8
12.5°	6692.8	6471.2	5774.4	4919.6	4059.1	3216.8	2517.8	1936.9	1625.5	1487.9	1505.0
15°	6655.3	6349.6	5442.5	4374.0	3252.1	2240.4	1539.1	1144.6	1002.6	957.1	962.8
17.5°	6637.1	6232.5	5099.2	3749.9	2426.8	1426.5	994.6	877.5	846.8	838.9	841.2
20°	6619.0	6114.3	4745.7	3132.7	1672.1	959.4	817.3	783.2	771.8	761.6	763.9
22.5°	6588.3	6000.6	4366.0	2507.5	1127.6	778.6	736.6	703.6	679.7	667.2	669.5
25°	6550.8	5881.2	3978.4	1867.6	823.0	694.5	654.7	608.1	579.7	557.0	558.1
27.5°	6490.5	5734.6	3578.3	1359.5	691.1	621.8	568.3	517.2	469.5	443.3	443.3
30°	6406.4	5568.7	3133.9	973.0	619.5	550.2	485.4	421.7	370.6	346.7	344.4
32.5°	6313.2	5395.9	2684.9	737.7	562.7	483.1	409.2	342.1	296.7	277.4	276.2
35°	6233.6	5209.5	2237.0	618.4	505.8	418.3	337.6	280.8	244.4	228.5	227.3
37.5°	6182.5	5023.0	1800.5	552.4	454.7	358.1	283.0	231.9	205.7	193.2	192.1
40°	6174.5	4884.4	1401.5	502.4	406.9	304.6	236.4	196.6	172.8	159.1	158.0
42.5°	6278.0	4804.8	1075.3	460.4	358.1	258.0	201.2	168.2	143.2	129.6	128.4
45°	6549.6	4829.8	827.5	422.8	309.2	218.2	170.5	139.8	117.1	106.8	104.6
47.5°	7045.2	5002.6	658.1	385.3	262.6	185.3	145.5	115.9	96.6	86.4	85.3
50°	7927.3	5408.4	550.2	344.4	219.4	158.0	120.5	94.3	78.4	69.3	68.2
52.5°	9098.1	6131.3	491.1	304.6	181.9	134.1	98.9	75.0	61.4	54.6	53.4
55°	10389.4	7006.6	452.4	261.4	148.9	111.4	78.4	59.1	47.7	42.1	39.8
57.5°	11650.0	7764.7	416.0	219.4	123.9	90.9	62.5	46.6	37.5	31.8	30.7
60°	12808.3	8461.5	374.0	176.2	101.2	71.6	48.9	36.4	29.6	23.9	23.9
62.5°	14048.4	9000.3	316.0	137.5	83.0	54.6	39.8	33.0	23.9	20.5	19.3
65°	15362.4	9400.4	247.8	106.8	64.8	40.9	33.0	34.1	19.3	14.8	13.6
67.5°	16333.1	9320.9	183.0	84.1	50.0	31.8	31.8	36.4	17.1	11.4	10.2
69°	16119.4	8674.1	153.5	72.7	43.2	27.3	29.6	36.4	15.9	10.2	9.1
70°	15499.9	7958.0	135.3	64.8	38.6	25.0	28.4	35.2	14.8	10.2	9.1
72.5°	12908.3	5993.8	105.7	48.9	30.7	20.5	23.9	30.7	14.8	10.2	8.0
75°	9709.6	3836.3	80.7	35.2	22.7	15.9	18.2	22.7	14.8	9.1	8.0
77.5°	5283.3	1383.4	58.0	23.9	15.9	12.5	12.5	17.1	13.6	6.8	4.5
80°	1358.3	347.8	36.4	15.9	12.5	9.1	8.0	11.4	8.0	1.1	0.0
82.5°	335.3	78.4	19.3	11.4	9.1	3.4	3.4	5.7	3.4	0.0	0.0
85°	184.1	38.6	12.5	8.0	4.5	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	94.3	11.4	3.4	2.3	1.1	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)