

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: P324708

Luminaire Tested: **GAN-SA4A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12869 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

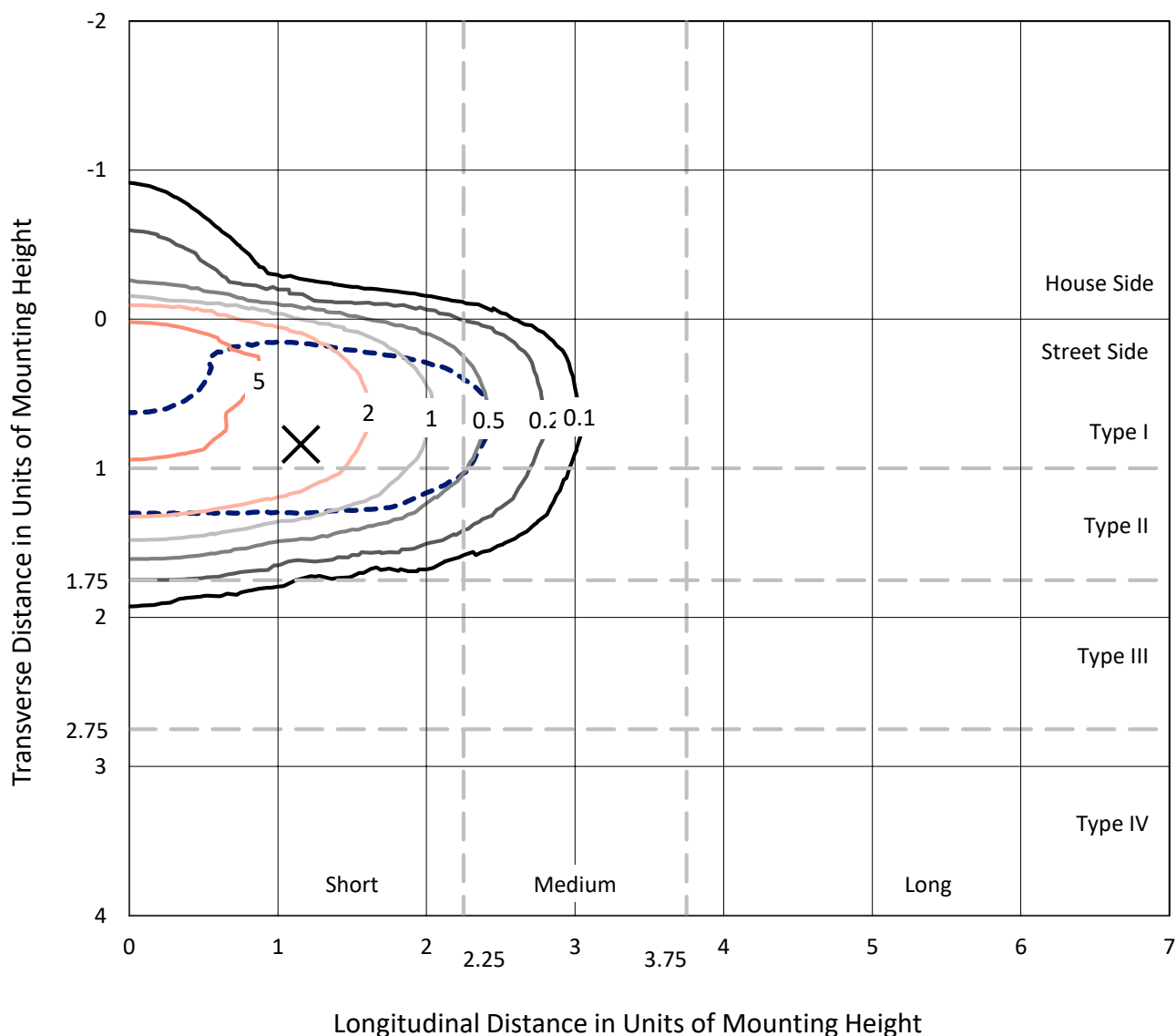
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

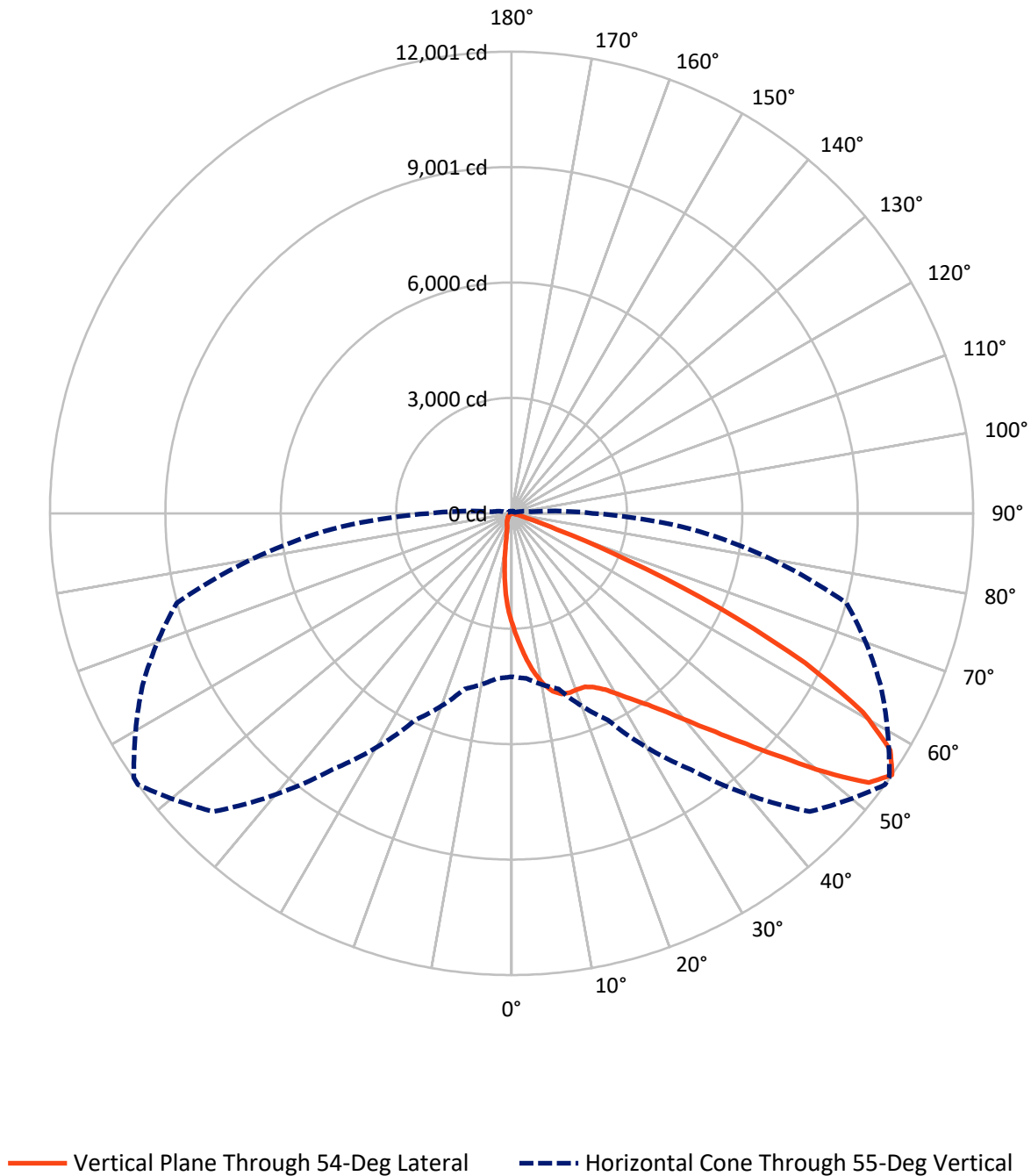
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.1	0.0	642.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12226.9	0.0	12226.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	12869.0	0.0	12869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	2.1
10°-20°	727.9	5.7
20°-30°	1242.8	9.7
30°-40°	1994.4	15.5
40°-50°	3187.1	24.8
50°-60°	3415.1	26.5
60°-70°	1753.4	13.6
70°-80°	265.6	2.1
80°-90°	17.3	0.1
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°	12869.0	100.0
0°-180°	12869.0	100.0

Coefficient of Utilization



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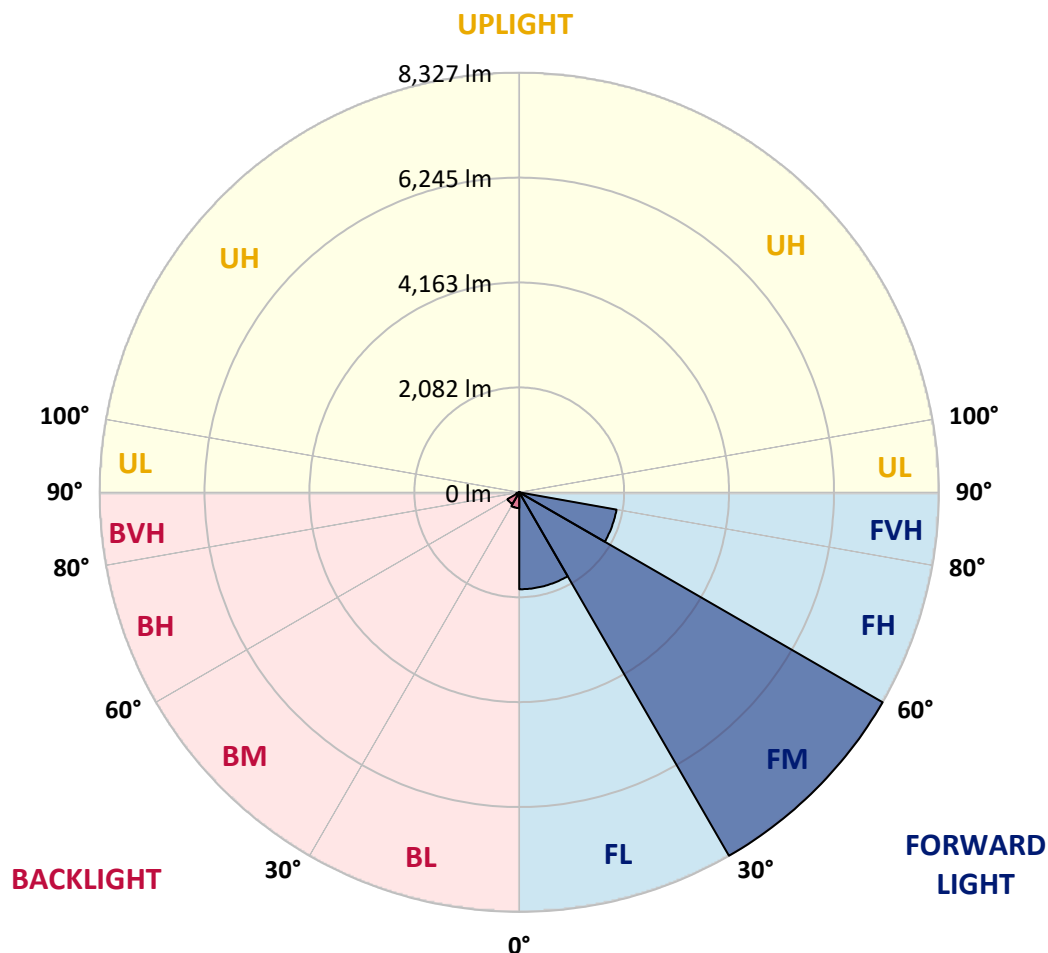
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1923.7	14.9			
FM	(30°-60°)	8326.8	64.7			
FH	(60°-80°)	1959.8	15.2			G2/5000
FVH	(80°-90°)	16.6	0.1			G1/100
BL	(0°-30°)	312.4	2.4	B1/500		
BM	(30°-60°)	269.8	2.1	B1/1000		
BH	(60°-80°)	59.2	0.5	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1
2.5°	3616.8	3562.9	3564.6	3540.2	3450.7	3380.7	3307.8	3290.6	3177.2	3058.3	2943.8
5°	4242.1	4202.6	4193.2	4145.9	4021.4	3889.7	3748.6	3715.8	3494.0	3250.6	3011.1
7.5°	4563.3	4563.9	4556.1	4538.8	4461.0	4333.2	4160.9	4126.5	3824.7	3459.6	3081.1
10°	4469.9	4491.0	4534.4	4591.6	4651.1	4635.0	4505.5	4474.4	4146.5	3680.8	3158.9
12.5°	4252.1	4254.9	4303.2	4397.1	4568.3	4743.9	4746.1	4735.6	4453.8	3912.0	3244.5
15°	4143.7	4154.3	4172.0	4232.6	4394.9	4676.1	4877.3	4892.3	4735.6	4157.6	3335.6
17.5°	4214.8	4229.8	4214.8	4222.1	4316.0	4568.9	4900.1	4938.4	4981.8	4400.5	3421.8
20°	4407.7	4421.6	4394.9	4365.4	4383.8	4537.7	4884.0	4935.7	5174.6	4616.1	3494.0
22.5°	4667.8	4673.3	4632.8	4584.4	4571.1	4643.3	4897.3	4950.7	5329.1	4811.2	3539.6
25°	4954.0	4959.0	4908.4	4852.8	4821.2	4850.6	5006.8	5046.8	5465.3	4997.3	3565.7
27.5°	5265.8	5270.2	5206.9	5138.5	5101.8	5102.9	5187.4	5230.2	5610.3	5209.6	3586.8
30°	5595.3	5593.1	5534.8	5439.7	5393.0	5391.9	5447.5	5490.8	5820.4	5482.0	3615.7
32.5°	5965.5	5961.0	5878.2	5760.4	5707.6	5715.4	5764.8	5789.8	6081.1	5772.1	3667.4
35°	6452.9	6440.1	6315.0	6168.9	6071.6	6068.8	6110.5	6130.5	6413.4	6123.3	3753.6
37.5°	7085.3	7073.6	6904.1	6691.8	6555.1	6504.0	6553.4	6579.0	6887.5	6574.0	3891.9
40°	7708.9	7697.2	7596.6	7402.1	7191.5	7068.6	7107.5	7134.8	7479.3	7120.9	4066.5
42.5°	8139.0	8149.0	8184.0	8200.1	8002.9	7745.0	7762.8	7791.1	8101.2	7705.5	4266.0
45°	8252.4	8274.1	8471.9	8860.4	8934.3	8733.1	8546.9	8562.5	8733.1	8290.2	4465.5
47.5°	7911.7	7951.7	8333.5	9056.0	9681.8	9824.1	9471.7	9451.2	9339.4	8763.1	4607.2
50°	7137.5	7174.2	7668.8	8737.6	9908.5	10865.5	10579.9	10519.3	9871.3	9046.0	4657.2
52.5°	6017.1	6061.6	6463.4	7735.0	9481.2	11330.2	11629.1	11578.6	10261.4	9068.2	4665.6
55°	4249.3	4303.2	4728.4	5928.2	8126.8	10960.6	12000.9	11985.9	10585.4	9009.3	4683.3
57.5°	2388.1	2427.0	2885.5	3800.2	5952.1	9546.7	11612.5	11712.0	10781.1	8907.1	4710.0
60°	1060.4	1070.9	1308.2	1891.8	3484.6	7295.9	10500.4	10668.3	10613.2	8770.4	4755.0
62.5°	588.0	579.1	579.1	786.4	1514.4	4516.6	8562.5	8839.8	9896.9	8608.6	4757.3
65°	460.7	452.4	428.5	431.8	576.9	2004.6	5929.3	6422.3	8536.4	8134.6	4597.2
67.5°	390.7	383.5	359.6	350.1	358.5	661.3	3257.8	3769.7	6477.3	6902.5	3982.0
70°	330.1	325.1	312.9	301.2	280.1	326.8	1246.6	1594.5	3991.4	4591.6	2718.2
72.5°	265.7	263.4	267.9	257.9	232.3	217.9	426.3	516.3	1792.9	2049.1	1119.8
75°	229.0	227.9	230.1	220.1	191.2	151.7	216.7	236.8	505.7	501.3	226.7
77.5°	148.9	150.6	190.6	186.2	164.5	101.1	112.3	121.2	153.4	115.0	68.9
80°	95.0	93.9	96.7	154.5	147.8	77.2	56.1	58.9	73.9	56.7	33.3
82.5°	57.8	56.7	63.4	72.2	74.5	53.9	34.5	35.0	46.1	36.7	17.8
85°	5.0	6.7	38.3	35.6	25.6	16.7	16.7	17.8	24.5	21.7	10.0
87.5°	0.0	0.0	6.7	10.0	5.6	6.1	6.1	6.7	9.4	9.4	5.0
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°	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1
2.5°	2884.4	2826.6	2709.9	2597.6	2502.6	2410.9	2306.4	2203.0	2154.7	2135.2	2115.2
5°	2889.4	2770.4	2529.8	2287.5	2036.3	1810.1	1617.2	1419.4	1320.5	1277.1	1257.1
7.5°	2896.0	2714.9	2325.8	1919.0	1514.4	1207.7	939.8	767.5	693.0	681.4	652.5
10°	2897.1	2647.6	2089.1	1512.2	1015.4	728.0	560.2	471.3	438.5	432.9	423.5
12.5°	2899.4	2568.1	1826.2	1119.8	676.9	486.8	405.1	375.7	366.8	366.2	366.2
15°	2906.0	2484.8	1553.3	807.0	486.3	385.7	355.7	344.0	340.7	342.3	341.8
17.5°	2906.0	2386.4	1285.5	601.3	392.9	346.8	330.1	322.3	321.2	322.9	323.4
20°	2884.9	2266.9	1039.8	467.9	348.5	321.8	306.8	299.6	296.8	297.9	298.4
22.5°	2834.3	2120.2	839.7	387.4	319.0	299.0	282.9	271.8	267.3	267.9	267.9
25°	2755.4	1946.3	656.9	335.1	295.1	274.5	255.6	242.9	240.1	239.5	240.6
27.5°	2654.3	1754.0	523.0	295.1	266.8	247.3	228.4	217.9	215.6	216.2	216.7
30°	2554.8	1554.4	412.4	261.2	235.1	216.7	202.3	197.3	197.3	199.0	199.5
32.5°	2463.7	1362.7	326.2	231.7	206.7	190.1	181.7	181.2	184.0	185.1	185.6
35°	2385.3	1185.4	270.1	209.0	184.5	170.1	167.3	169.5	172.8	175.1	175.6
37.5°	2329.7	1027.0	236.2	190.1	167.3	155.6	155.1	159.5	163.9	168.9	170.1
40°	2306.4	893.1	212.9	173.4	153.4	144.5	142.8	148.9	157.3	164.5	165.6
42.5°	2286.9	783.6	192.8	157.3	142.3	129.5	128.9	136.7	146.7	153.9	155.6
45°	2270.3	695.8	174.5	140.0	127.8	111.2	112.8	122.8	130.6	138.4	140.0
47.5°	2235.8	623.6	154.5	121.7	105.6	95.0	98.4	107.3	113.4	125.0	126.7
50°	2174.1	564.6	133.9	99.5	86.1	82.3	87.3	93.4	101.1	111.2	112.3
52.5°	2132.4	520.2	116.2	83.4	71.1	72.2	77.2	79.5	83.9	87.8	86.7
55°	2108.5	495.7	101.7	72.2	60.6	63.9	65.0	62.2	60.0	56.1	54.5
57.5°	2105.8	473.5	90.6	62.8	53.4	55.0	51.1	41.7	33.9	29.5	28.3
60°	2101.3	446.3	81.7	52.8	47.2	45.0	36.7	22.8	16.1	15.0	15.0
62.5°	2053.0	404.0	75.0	44.5	40.0	33.9	21.1	10.6	8.9	9.4	9.4
65°	1899.0	345.1	68.4	36.1	31.7	24.5	10.6	6.1	3.3	3.9	3.9
67.5°	1614.5	275.1	61.1	27.8	23.9	15.6	6.1	2.8	0.0	0.0	0.0
70°	1080.9	170.6	51.7	19.5	15.6	9.4	4.4	0.6	0.0	0.0	0.0
72.5°	414.6	92.3	41.7	11.7	10.0	6.7	2.8	0.0	0.0	0.0	0.0
75°	93.4	60.6	28.9	8.3	7.2	4.4	1.1	0.0	0.0	0.0	0.0
77.5°	35.6	43.9	16.7	5.6	5.0	2.8	0.0	0.0	0.0	0.0	0.0
80°	17.2	26.1	7.8	3.3	2.8	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	10.0	3.3	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	5.0	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.7	0.6	0.6	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)