

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: P324718

Luminaire Tested: **GAN-SA4B-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324718
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-SA4B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 15782 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

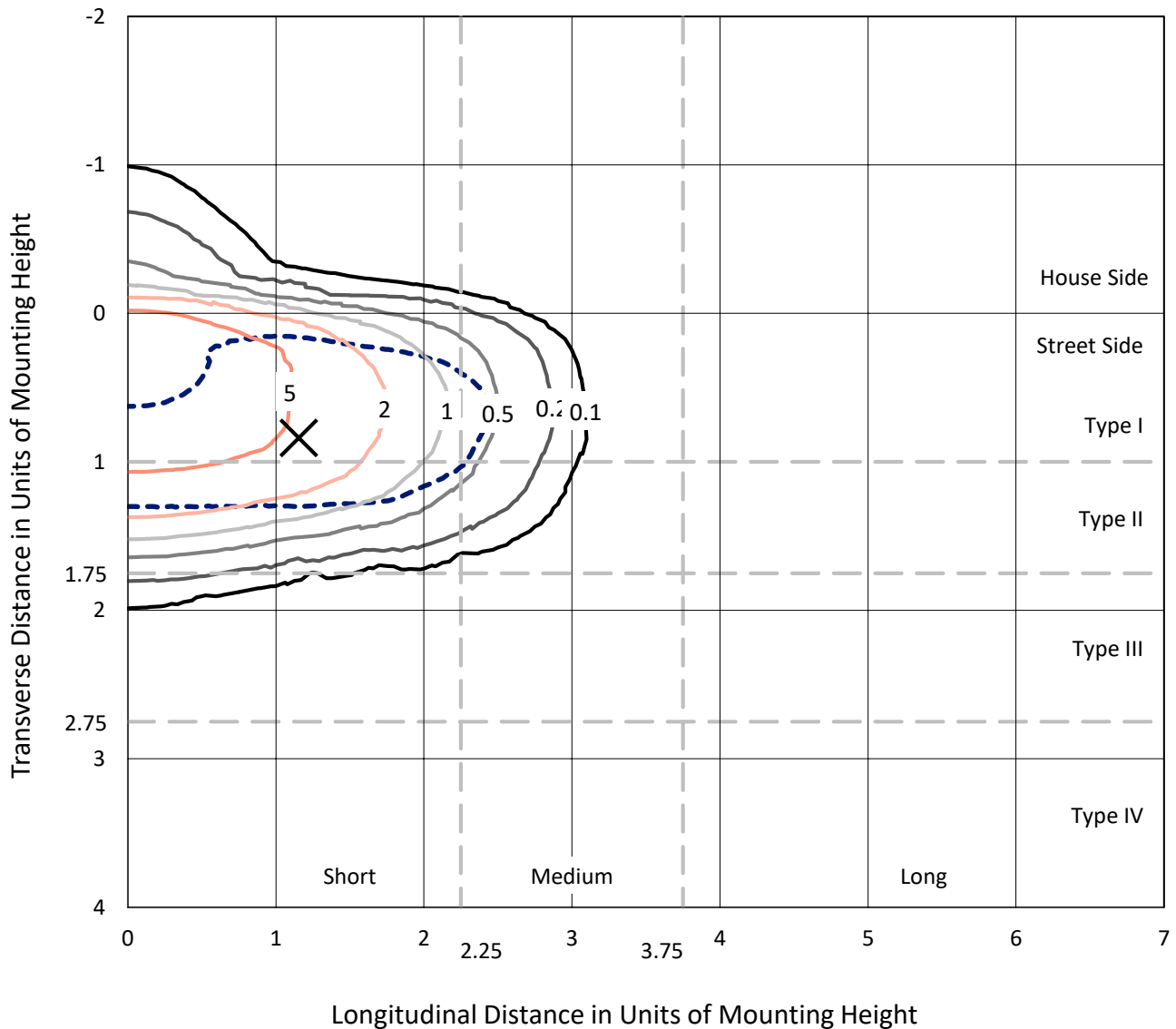
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

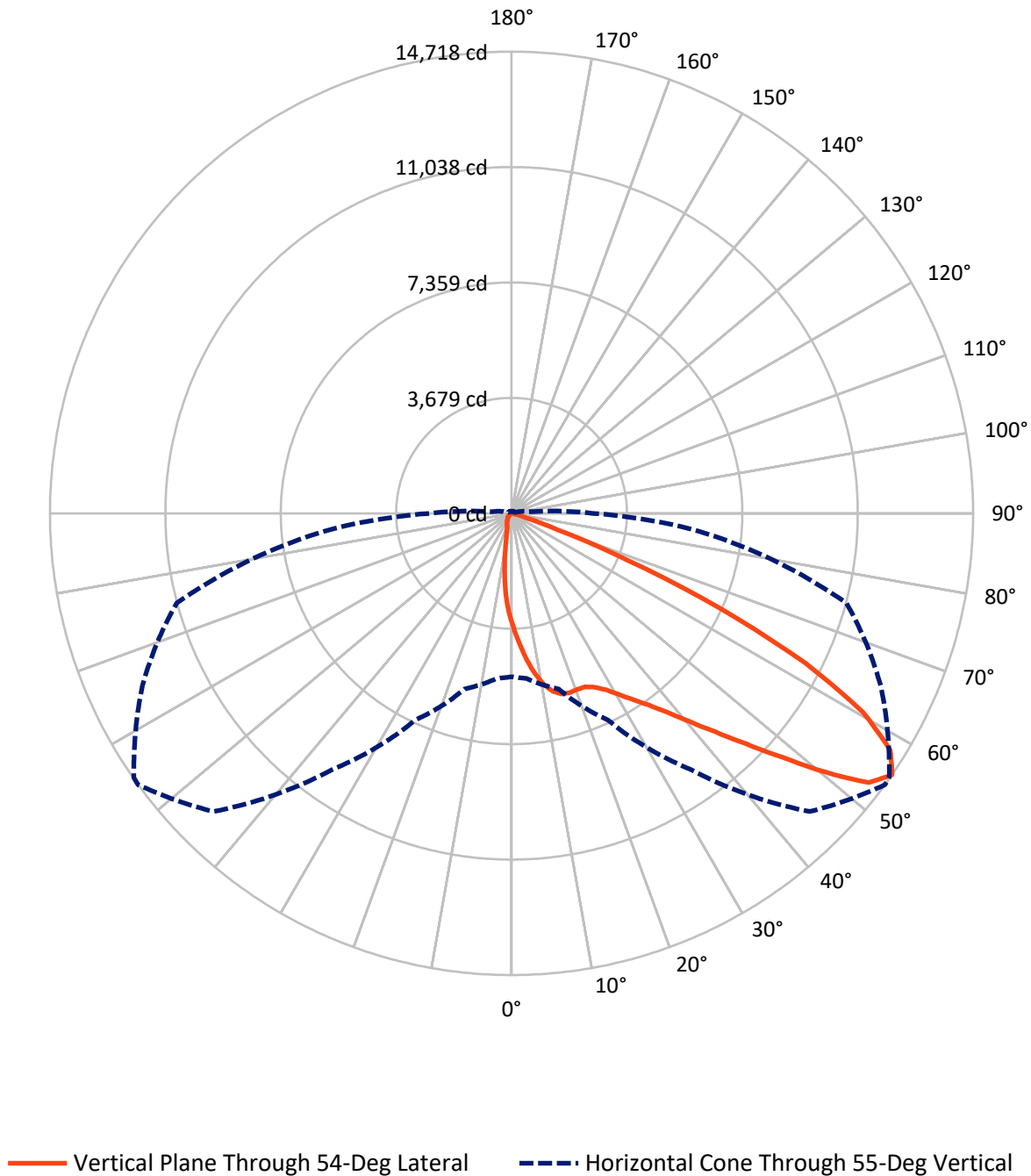
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	787.4	0.0	787.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14994.6	0.0	14994.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	15782.0	0.0	15782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	2.1
10°-20°	892.7	5.7
20°-30°	1524.1	9.7
30°-40°	2445.9	15.5
40°-50°	3908.5	24.8
50°-60°	4188.1	26.5
60°-70°	2150.3	13.6
70°-80°	325.7	2.1
80°-90°	21.2	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°	15782.0	100.0
0°-180°	15782.0	100.0

Coefficient of Utilization



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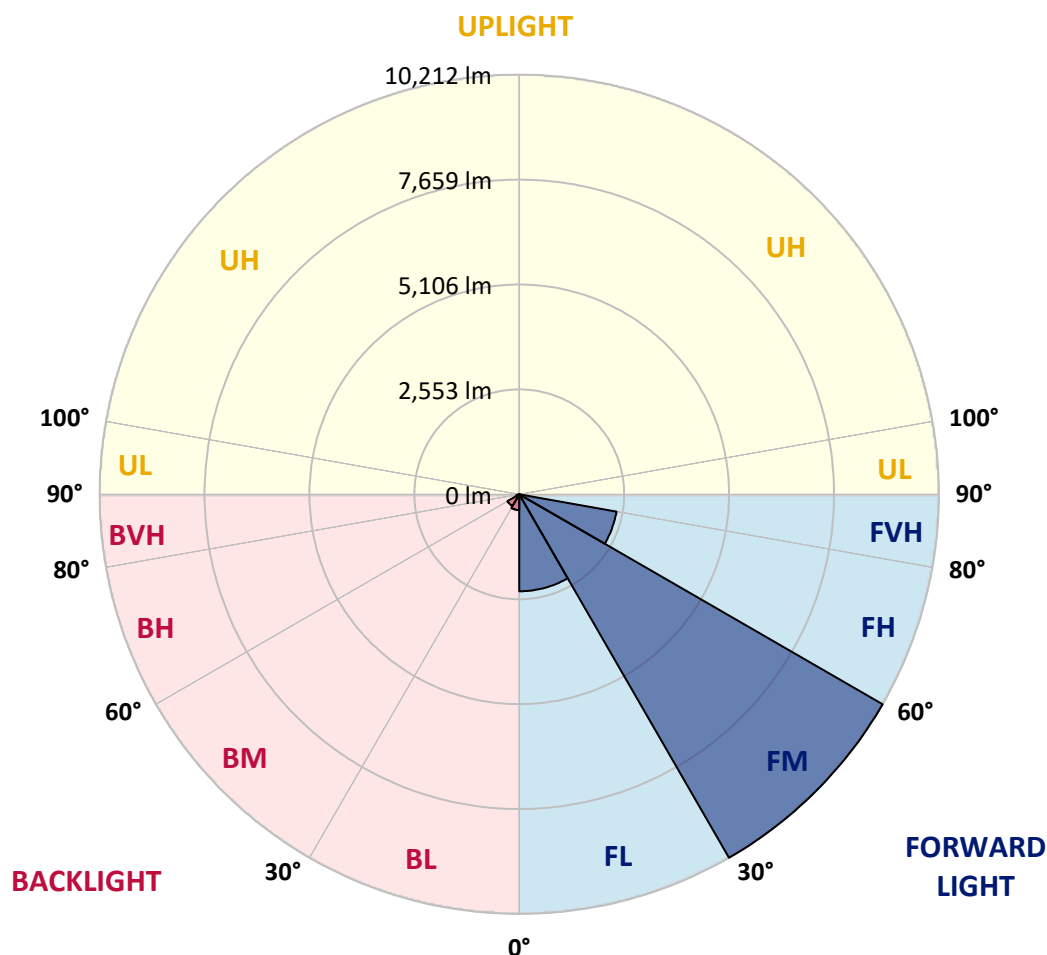
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2359.1	14.9			
FM	(30°-60°)	10211.6	64.7			
FH	(60°-80°)	2403.5	15.2			G2/5000
FVH	(80°-90°)	20.4	0.1			G1/100
BL	(0°-30°)	383.1	2.4	B1/500		
BM	(30°-60°)	330.9	2.1	B1/1000		
BH	(60°-80°)	72.6	0.5	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5
2.5°	4435.5	4369.4	4371.5	4341.5	4231.8	4145.9	4056.6	4035.5	3896.4	3750.6	3610.2
5°	5202.3	5153.9	5142.3	5084.4	4931.7	4770.2	4597.1	4556.9	4284.9	3986.4	3692.7
7.5°	5596.2	5596.9	5587.4	5566.2	5470.8	5314.1	5102.8	5060.5	4690.4	4242.7	3778.5
10°	5481.7	5507.6	5560.8	5631.0	5703.9	5684.2	5525.4	5487.2	5085.1	4513.9	3873.9
12.5°	5214.6	5218.0	5277.3	5392.4	5602.4	5817.7	5820.5	5807.5	5462.0	4797.5	3978.9
15°	5081.7	5094.6	5116.4	5190.7	5389.7	5734.6	5981.3	5999.7	5807.5	5098.7	4090.7
17.5°	5168.9	5187.3	5168.9	5177.8	5292.9	5603.0	6009.3	6056.3	6109.4	5396.5	4196.3
20°	5405.4	5422.4	5389.7	5353.6	5376.1	5564.9	5989.5	6052.9	6345.9	5661.0	4284.9
22.5°	5724.4	5731.2	5681.4	5622.1	5605.8	5694.4	6005.8	6071.3	6535.4	5900.2	4340.8
25°	6075.4	6081.5	6019.5	5951.3	5912.5	5948.6	6140.1	6189.2	6702.4	6128.5	4372.8
27.5°	6457.7	6463.2	6385.5	6301.6	6256.7	6258.0	6361.6	6414.1	6880.3	6388.9	4398.7
30°	6861.9	6859.2	6787.6	6671.0	6613.8	6612.4	6680.6	6733.7	7137.9	6722.8	4434.2
32.5°	7315.8	7310.3	7208.8	7064.3	6999.6	7009.1	7069.8	7100.4	7457.6	7078.6	4497.6
35°	7913.5	7897.8	7744.5	7565.2	7446.0	7442.6	7493.7	7518.2	7865.1	7509.4	4603.2
37.5°	8689.1	8674.8	8466.9	8206.6	8038.9	7976.2	8036.9	8068.2	8446.5	8062.1	4772.9
40°	9453.8	9439.5	9316.1	9077.6	8819.3	8668.7	8716.4	8749.8	9172.3	8732.7	4986.9
42.5°	9981.3	9993.6	10036.6	10056.3	9814.4	9498.1	9519.9	9554.7	9935.0	9449.7	5231.6
45°	10120.4	10147.0	10389.6	10866.0	10956.6	10709.9	10481.6	10500.7	10709.9	10166.7	5476.3
47.5°	9702.6	9751.7	10219.9	11105.9	11873.3	12047.8	11615.7	11590.5	11453.5	10746.7	5650.1
50°	8753.2	8798.2	9404.8	10715.4	12151.4	13325.0	12974.7	12900.4	12105.7	11093.6	5711.4
52.5°	7379.2	7433.7	7926.5	9485.9	11627.3	13894.8	14261.5	14199.5	12584.2	11120.9	5721.6
55°	5211.2	5277.3	5798.7	7270.1	9966.4	13441.6	14717.5	14699.1	12981.5	11048.7	5743.4
57.5°	2928.6	2976.3	3538.6	4660.5	7299.4	11707.7	14241.1	14363.1	13221.4	10923.3	5776.2
60°	1300.4	1313.4	1604.4	2320.0	4273.3	8947.4	12877.3	13083.1	13015.6	10755.6	5831.4
62.5°	721.1	710.2	710.2	964.4	1857.2	5539.0	10500.7	10840.8	12137.1	10557.3	5834.1
65°	565.0	554.8	525.5	529.6	707.5	2458.4	7271.5	7876.0	10468.7	9975.9	5637.8
67.5°	479.1	470.3	441.0	429.4	439.6	811.0	3995.3	4623.0	7943.5	8464.9	4883.3
70°	404.8	398.7	383.7	369.4	343.5	400.8	1528.7	1955.4	4894.9	5631.0	3333.5
72.5°	325.8	323.1	328.5	316.2	284.9	267.2	522.8	633.2	2198.7	2512.9	1373.3
75°	280.8	279.4	282.2	269.9	234.5	186.1	265.8	290.3	620.2	614.8	278.1
77.5°	182.7	184.7	233.8	228.3	201.7	124.0	137.7	148.6	188.1	141.1	84.5
80°	116.5	115.2	118.6	189.5	181.3	94.7	68.8	72.2	90.6	69.5	40.9
82.5°	70.9	69.5	77.7	88.6	91.3	66.1	42.3	42.9	56.6	45.0	21.8
85°	6.1	8.2	47.0	43.6	31.4	20.4	20.4	21.8	30.0	26.6	12.3
87.5°	0.0	0.0	8.2	12.3	6.8	7.5	7.5	8.2	11.6	11.6	6.1
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°	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5	3534.5
2.5°	3537.3	3466.4	3323.3	3185.6	3069.0	2956.6	2828.4	2701.7	2642.4	2618.5	2594.0
5°	3543.4	3397.5	3102.4	2805.3	2497.2	2219.8	1983.3	1740.7	1619.4	1566.2	1541.7
7.5°	3551.6	3329.4	2852.3	2353.4	1857.2	1481.0	1152.5	941.2	849.9	835.6	800.1
10°	3552.9	3246.9	2562.0	1854.5	1245.2	892.8	687.0	578.0	537.7	530.9	519.3
12.5°	3555.7	3149.5	2239.6	1373.3	830.1	597.0	496.9	460.7	449.8	449.1	449.1
15°	3563.8	3047.2	1904.9	989.6	596.4	473.0	436.2	421.9	417.8	419.8	419.2
17.5°	3563.8	2926.6	1576.4	737.4	481.9	425.3	404.8	395.3	393.9	396.0	396.7
20°	3537.9	2780.1	1275.2	573.9	427.3	394.6	376.2	367.4	363.9	365.3	366.0
22.5°	3475.9	2600.1	1029.8	475.0	391.2	366.7	346.9	333.3	327.8	328.5	328.5
25°	3379.1	2386.8	805.6	411.0	361.9	336.7	313.5	297.8	294.4	293.7	295.1
27.5°	3255.1	2151.0	641.3	361.9	327.1	303.3	280.1	267.2	264.4	265.1	265.8
30°	3133.1	1906.3	505.7	320.3	288.3	265.8	248.1	242.0	242.0	244.0	244.7
32.5°	3021.3	1671.2	400.1	284.2	253.5	233.1	222.9	222.2	225.6	227.0	227.6
35°	2925.2	1453.8	331.2	256.3	226.3	208.6	205.1	207.9	212.0	214.7	215.4
37.5°	2857.1	1259.5	289.7	233.1	205.1	190.8	190.2	195.6	201.1	207.2	208.6
40°	2828.4	1095.3	261.0	212.6	188.1	177.2	175.2	182.7	192.9	201.7	203.1
42.5°	2804.6	961.0	236.5	192.9	174.5	158.8	158.1	167.7	179.9	188.8	190.8
45°	2784.1	853.3	214.0	171.8	156.8	136.3	138.4	150.6	160.2	169.7	171.8
47.5°	2741.9	764.7	189.5	149.3	129.5	116.5	120.6	131.5	139.0	153.3	155.4
50°	2666.2	692.5	164.3	122.0	105.6	100.9	107.0	114.5	124.0	136.3	137.7
52.5°	2615.1	637.9	142.4	102.2	87.2	88.6	94.7	97.5	102.9	107.7	106.3
55°	2585.8	607.9	124.7	88.6	74.3	78.4	79.7	76.3	73.6	68.8	66.8
57.5°	2582.4	580.7	111.1	77.0	65.4	67.5	62.7	51.1	41.6	36.1	34.8
60°	2577.0	547.3	100.2	64.7	57.9	55.2	45.0	27.9	19.8	18.4	18.4
62.5°	2517.7	495.5	92.0	54.5	49.1	41.6	25.9	12.9	10.9	11.6	11.6
65°	2328.9	423.2	83.8	44.3	38.8	30.0	12.9	7.5	4.1	4.8	4.8
67.5°	1979.9	337.4	75.0	34.1	29.3	19.1	7.5	3.4	0.0	0.0	0.0
70°	1325.6	209.2	63.4	23.9	19.1	11.6	5.5	0.7	0.0	0.0	0.0
72.5°	508.4	113.1	51.1	14.3	12.3	8.2	3.4	0.0	0.0	0.0	0.0
75°	114.5	74.3	35.4	10.2	8.9	5.5	1.4	0.0	0.0	0.0	0.0
77.5°	43.6	53.8	20.4	6.8	6.1	3.4	0.0	0.0	0.0	0.0	0.0
80°	21.1	32.0	9.5	4.1	3.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	12.3	4.1	2.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	6.1	2.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	2.0	0.7	0.7	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)