

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: P324737

Luminaire Tested: **GAN-SA3D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324737
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-SA3D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 16218 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

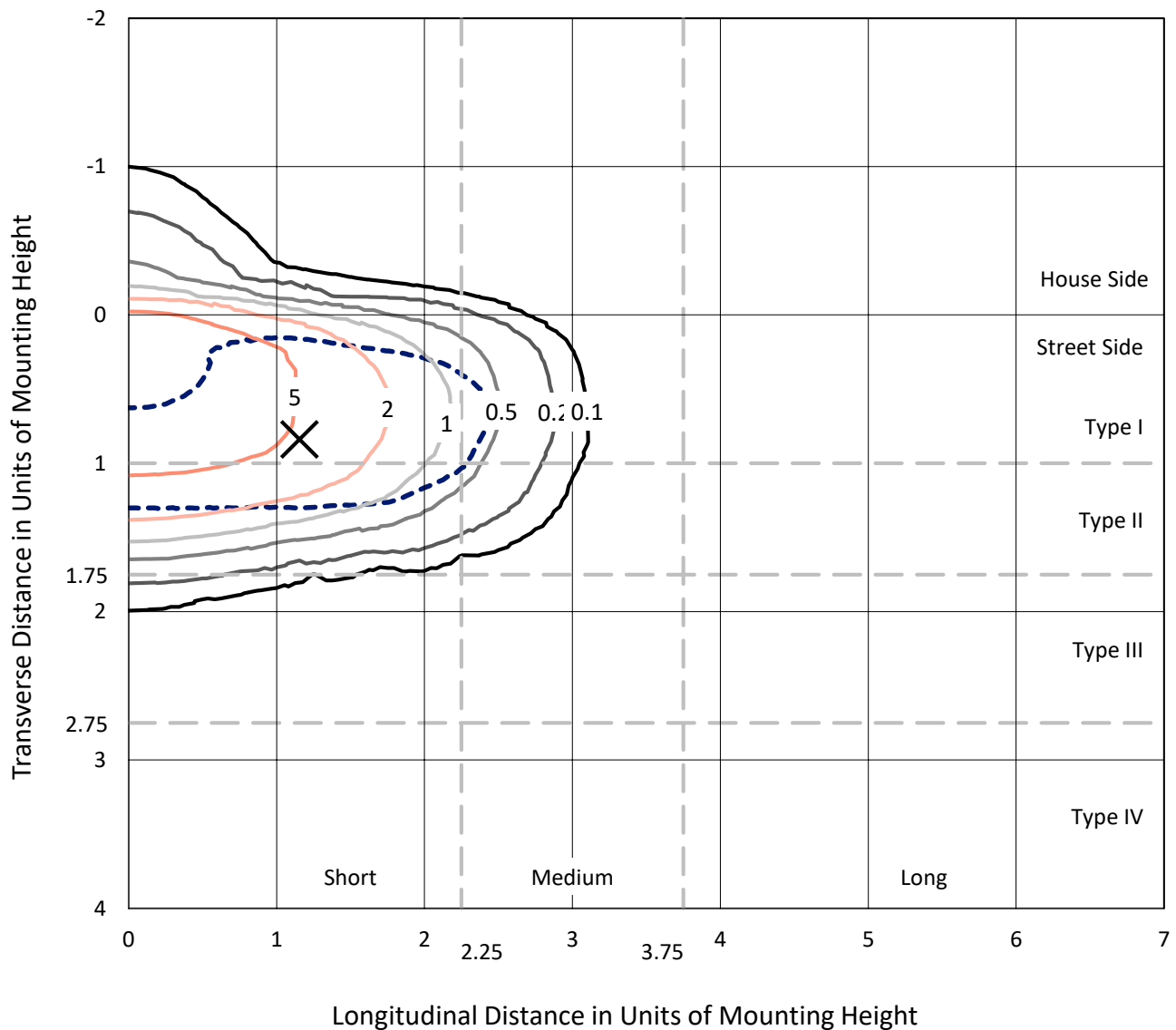
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

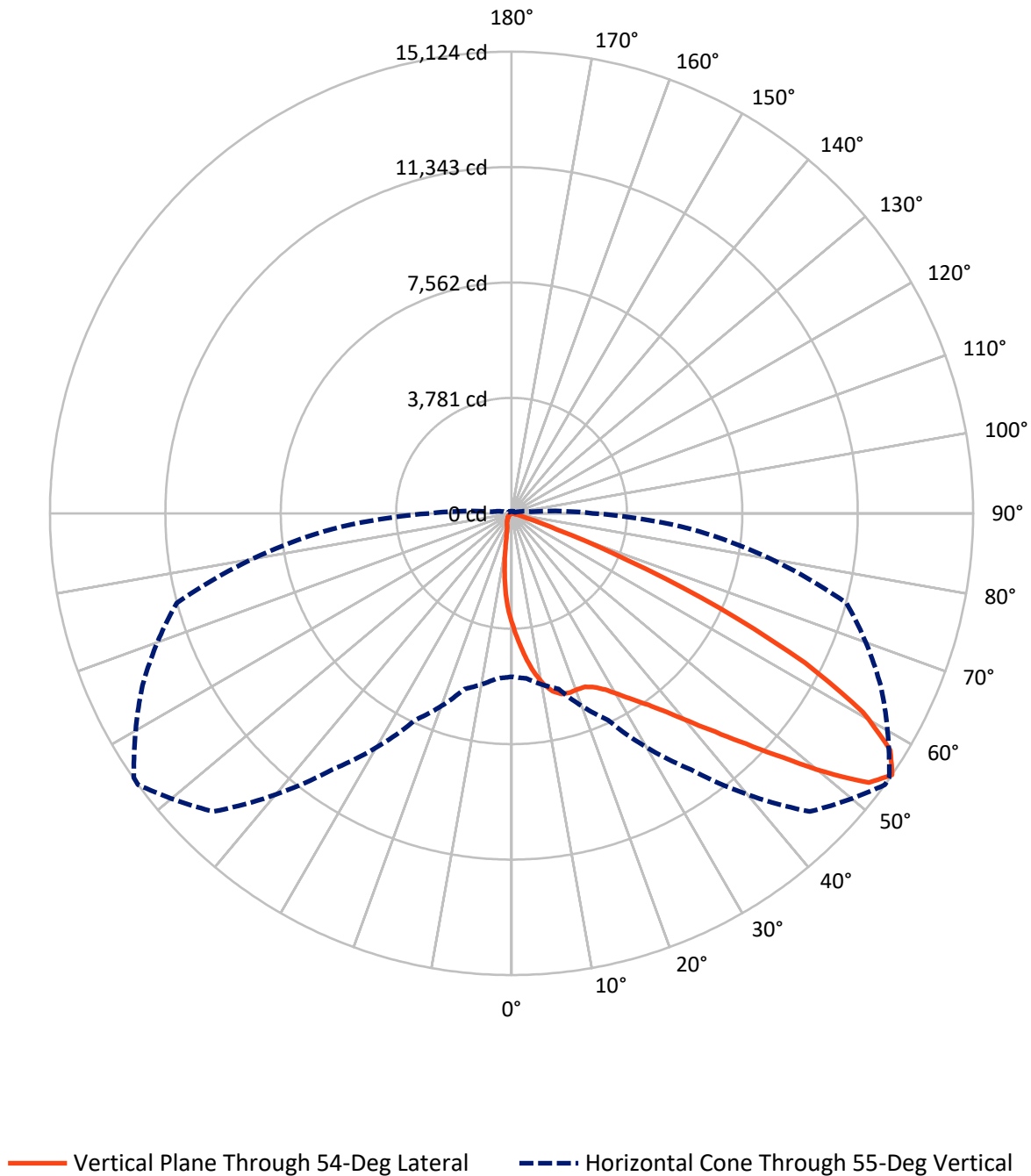
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	809.1	0.0	809.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	15408.8	0.0	15408.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	16218.0	0.0	16218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.5	2.1
10°-20°	917.3	5.7
20°-30°	1566.2	9.7
30°-40°	2513.5	15.5
40°-50°	4016.5	24.8
50°-60°	4303.8	26.5
60°-70°	2209.7	13.6
70°-80°	334.7	2.1
80°-90°	21.8	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°	16218.0	100.0
0°-180°	16218.0	100.0

Coefficient of Utilization



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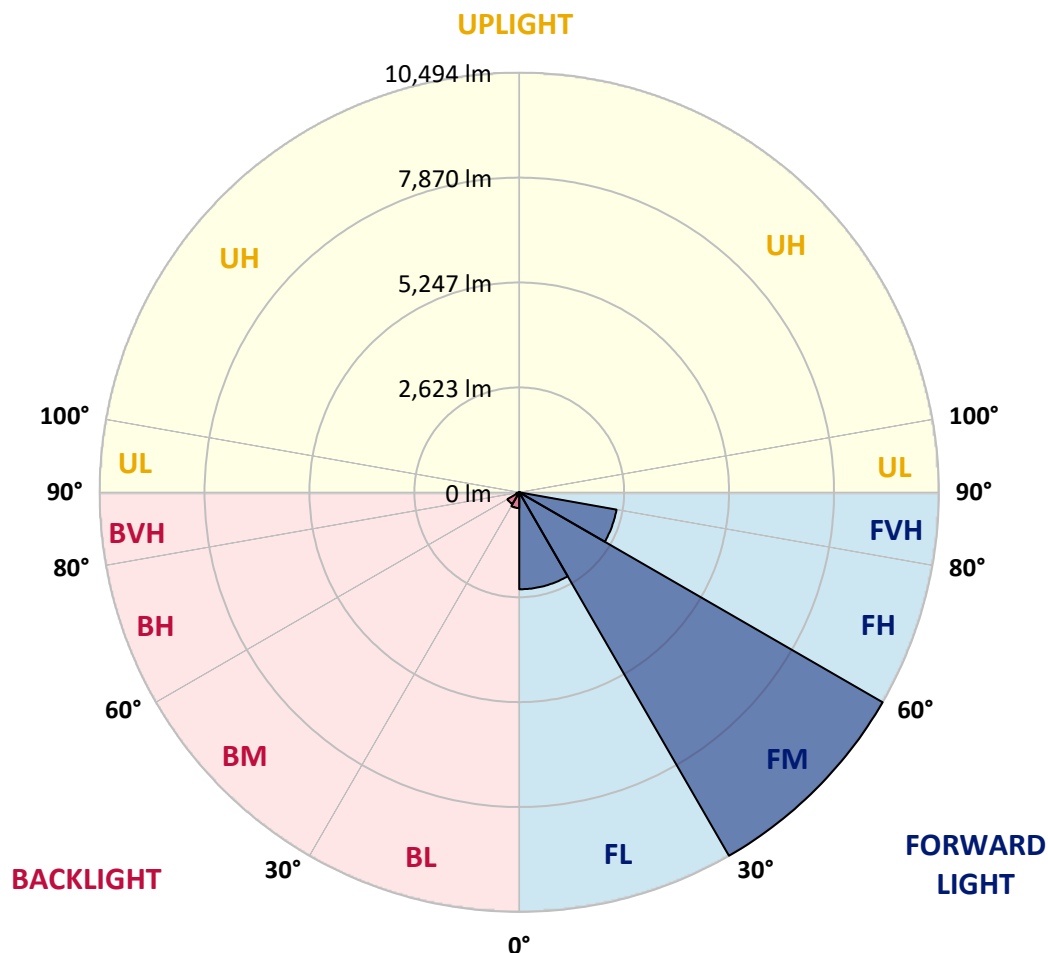
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2424.3	14.9			
FM	(30°-60°)	10493.8	64.7			
FH	(60°-80°)	2469.9	15.2			G2/5000
FVH	(80°-90°)	20.9	0.1			G1/100
BL	(0°-30°)	393.7	2.4	B1/500		
BM	(30°-60°)	340.0	2.1	B1/1000		
BH	(60°-80°)	74.6	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°	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2
2.5°	4558.1	4490.1	4492.3	4461.4	4348.7	4260.4	4168.7	4147.0	4004.1	3854.2	3709.9
5°	5346.0	5296.3	5284.4	5224.8	5068.0	4902.0	4724.1	4682.8	4403.3	4096.5	3794.7
7.5°	5750.8	5751.5	5741.7	5720.0	5622.0	5460.9	5243.8	5200.3	4820.0	4359.9	3882.9
10°	5633.2	5659.8	5714.4	5786.6	5861.5	5841.2	5678.0	5638.8	5225.6	4638.6	3981.0
12.5°	5358.6	5362.1	5423.1	5541.4	5757.1	5978.5	5981.3	5968.0	5612.9	4930.0	4088.8
15°	5222.0	5235.4	5257.8	5334.1	5538.6	5893.0	6146.6	6165.5	5968.0	5239.6	4203.7
17.5°	5311.7	5330.6	5311.7	5320.8	5439.2	5757.8	6175.3	6223.6	6278.2	5545.6	4312.3
20°	5554.7	5572.2	5538.6	5501.5	5524.6	5718.6	6155.0	6220.1	6521.3	5817.4	4403.3
22.5°	5882.5	5889.5	5838.4	5777.5	5760.6	5851.7	6171.8	6239.0	6716.0	6063.2	4460.7
25°	6243.2	6249.5	6185.8	6115.7	6075.8	6112.9	6309.7	6360.2	6887.6	6297.8	4493.7
27.5°	6636.1	6641.7	6561.9	6475.7	6429.5	6430.9	6537.4	6591.3	7070.4	6565.4	4520.3
30°	7051.4	7048.6	6975.1	6855.3	6796.5	6795.1	6865.1	6919.8	7335.1	6908.6	4556.7
32.5°	7517.9	7512.3	7407.9	7259.5	7192.9	7202.7	7265.1	7296.6	7663.6	7274.2	4621.8
35°	8132.1	8116.0	7958.4	7774.2	7651.7	7648.2	7700.7	7725.9	8082.4	7716.8	4730.4
37.5°	8929.2	8914.5	8700.8	8433.3	8261.0	8196.6	8258.9	8291.1	8679.8	8284.8	4904.8
40°	9715.0	9700.3	9573.5	9328.4	9062.9	8908.2	8957.2	8991.5	9425.7	8974.0	5124.7
42.5°	10257.1	10269.7	10313.8	10334.1	10085.5	9760.5	9782.9	9818.7	10209.5	9710.8	5376.1
45°	10400.0	10427.3	10676.6	11166.2	11259.3	11005.8	10771.2	10790.8	11005.8	10447.6	5627.6
47.5°	9970.6	10021.1	10502.2	11412.7	12201.4	12380.7	11936.6	11910.7	11769.9	11043.6	5806.2
50°	8995.0	9041.2	9664.6	11011.4	12487.1	13693.2	13333.2	13256.8	12440.2	11400.1	5869.2
52.5°	7583.0	7639.1	8145.4	9747.9	11948.5	14278.7	14655.5	14591.8	12931.9	11428.1	5879.7
55°	5355.1	5423.1	5958.9	7471.0	10241.7	13812.9	15124.0	15105.1	13340.2	11353.9	5902.1
57.5°	3009.5	3058.6	3636.4	4789.2	7501.1	12031.2	14634.5	14759.9	13586.7	11225.0	5935.7
60°	1336.3	1349.6	1648.7	2384.1	4391.4	9194.6	13233.0	13444.5	13375.2	11052.7	5992.5
62.5°	741.0	729.8	729.8	991.0	1908.5	5692.0	10790.8	11140.3	12472.4	10848.9	5995.3
65°	580.6	570.1	540.0	544.2	727.0	2526.3	7472.4	8093.6	10757.9	10251.5	5793.6
67.5°	492.4	483.3	453.1	441.2	451.7	833.5	4105.6	4750.7	8163.0	8698.7	5018.2
70°	416.0	409.7	394.3	379.6	353.0	411.8	1571.0	2009.4	5030.1	5786.6	3425.6
72.5°	334.8	332.0	337.6	325.0	292.8	274.5	537.2	650.7	2259.4	2582.3	1411.3
75°	288.6	287.2	290.0	277.4	240.9	191.2	273.1	298.4	637.3	631.7	285.8
77.5°	187.7	189.8	240.2	234.6	207.3	127.5	141.5	152.7	193.3	145.0	86.8
80°	119.8	118.4	121.9	194.7	186.3	97.4	70.7	74.2	93.2	71.4	42.0
82.5°	72.8	71.4	79.8	91.0	93.9	67.9	43.4	44.1	58.1	46.2	22.4
85°	6.3	8.4	48.3	44.8	32.2	21.0	21.0	22.4	30.8	27.3	12.6
87.5°	0.0	0.0	8.4	12.6	7.0	7.7	7.7	8.4	11.9	11.9	6.3
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°	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2
2.5°	3635.0	3562.1	3415.1	3273.6	3153.8	3038.3	2906.6	2776.3	2715.4	2690.9	2665.7
5°	3641.3	3491.4	3188.1	2882.8	2566.2	2281.1	2038.1	1788.8	1664.1	1609.5	1584.3
7.5°	3649.7	3421.4	2931.1	2418.4	1908.5	1521.9	1184.3	967.2	873.4	858.7	822.2
10°	3651.1	3336.6	2632.7	1905.7	1279.6	917.5	706.0	593.9	552.6	545.6	533.7
12.5°	3653.9	3236.5	2301.5	1411.3	853.1	613.5	510.6	473.5	462.3	461.6	461.6
15°	3662.3	3131.4	1957.6	1017.0	612.8	486.1	448.2	433.5	429.3	431.4	430.7
17.5°	3662.3	3007.4	1620.0	757.8	495.2	437.0	416.0	406.2	404.8	406.9	407.6
20°	3635.7	2856.9	1310.4	589.7	439.1	405.5	386.6	377.5	374.0	375.4	376.1
22.5°	3571.9	2672.0	1058.3	488.2	402.0	376.8	356.5	342.5	336.9	337.6	337.6
25°	3472.5	2452.7	827.9	422.3	371.9	346.0	322.2	306.1	302.6	301.9	303.3
27.5°	3345.0	2210.4	659.1	371.9	336.2	311.7	287.9	274.5	271.7	272.4	273.1
30°	3219.7	1959.0	519.7	329.2	296.3	273.1	254.9	248.6	248.6	250.7	251.4
32.5°	3104.8	1717.3	411.1	292.1	260.5	239.5	229.0	228.3	231.8	233.2	233.9
35°	3006.0	1493.9	340.4	263.3	232.5	214.3	210.8	213.6	217.8	220.6	221.3
37.5°	2936.0	1294.3	297.7	239.5	210.8	196.1	195.4	201.0	206.6	212.9	214.3
40°	2906.6	1125.5	268.2	218.5	193.3	182.1	180.0	187.7	198.2	207.3	208.7
42.5°	2882.1	987.5	243.0	198.2	179.3	163.2	162.5	172.3	184.9	194.0	196.1
45°	2861.1	876.9	219.9	176.5	161.1	140.1	142.2	154.8	164.6	174.4	176.5
47.5°	2817.6	785.8	194.7	153.4	133.1	119.8	124.0	135.2	142.9	157.6	159.7
50°	2739.9	711.6	168.8	125.4	108.6	103.7	110.0	117.7	127.5	140.1	141.5
52.5°	2687.4	655.6	146.4	105.1	89.6	91.0	97.4	100.2	105.8	110.7	109.3
55°	2657.2	624.7	128.2	91.0	76.3	80.5	81.9	78.4	75.6	70.7	68.6
57.5°	2653.7	596.7	114.2	79.1	67.2	69.3	64.4	52.5	42.7	37.1	35.7
60°	2648.1	562.4	103.0	66.5	59.5	56.7	46.2	28.7	20.3	18.9	18.9
62.5°	2587.2	509.2	94.6	56.0	50.4	42.7	26.6	13.3	11.2	11.9	11.9
65°	2393.2	434.9	86.1	45.5	39.9	30.8	13.3	7.7	4.2	4.9	4.9
67.5°	2034.6	346.7	77.0	35.0	30.1	19.6	7.7	3.5	0.0	0.0	0.0
70°	1362.2	215.0	65.1	24.5	19.6	11.9	5.6	0.7	0.0	0.0	0.0
72.5°	522.5	116.3	52.5	14.7	12.6	8.4	3.5	0.0	0.0	0.0	0.0
75°	117.7	76.3	36.4	10.5	9.1	5.6	1.4	0.0	0.0	0.0	0.0
77.5°	44.8	55.3	21.0	7.0	6.3	3.5	0.0	0.0	0.0	0.0	0.0
80°	21.7	32.9	9.8	4.2	3.5	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.2	12.6	4.2	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	6.3	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	2.1	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)