

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: P324937

Luminaire Tested: **GAN-SA3D-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324937
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 14255 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

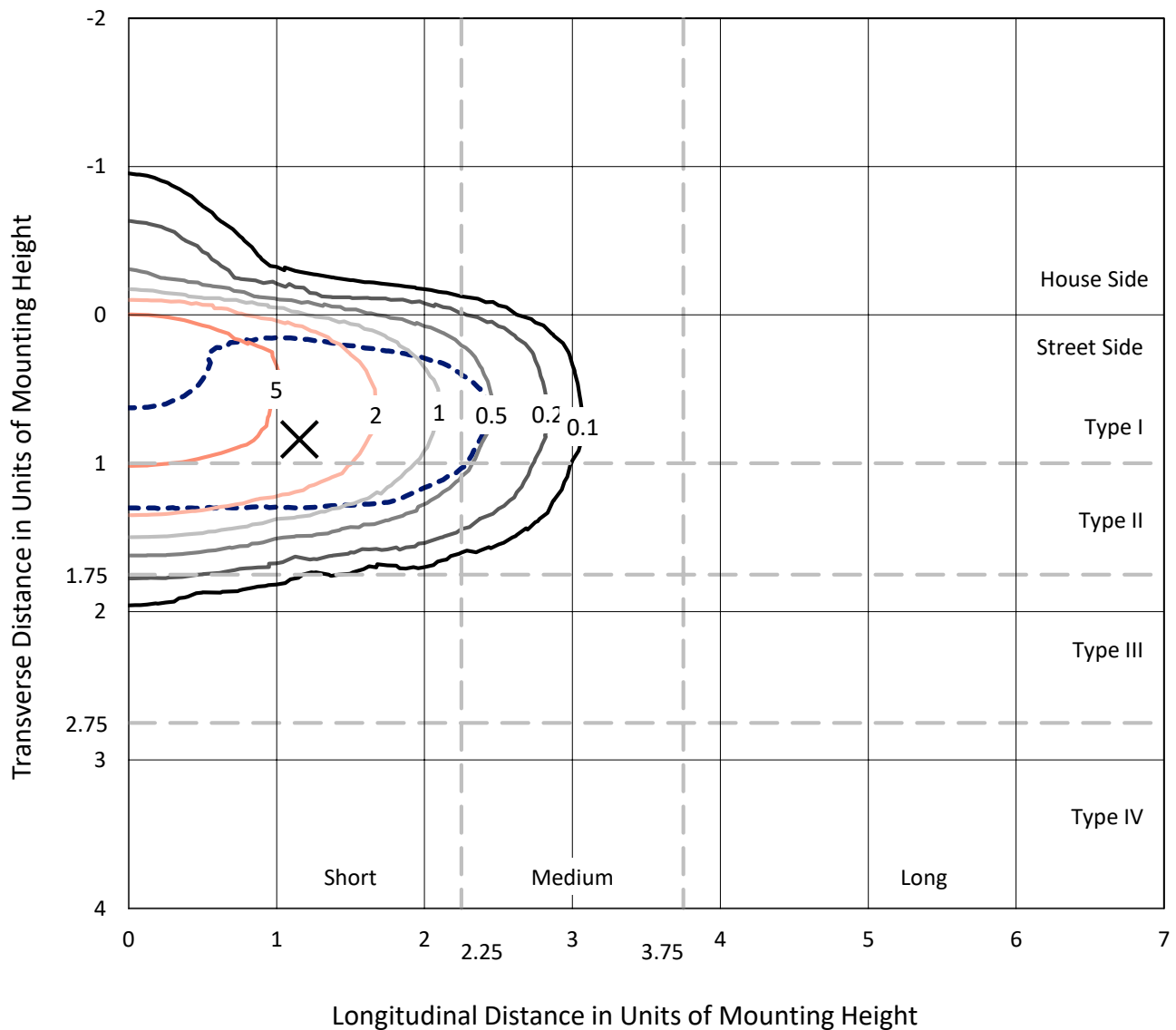
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324937
 CATALOG NUMBER: GAN-SA3D-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

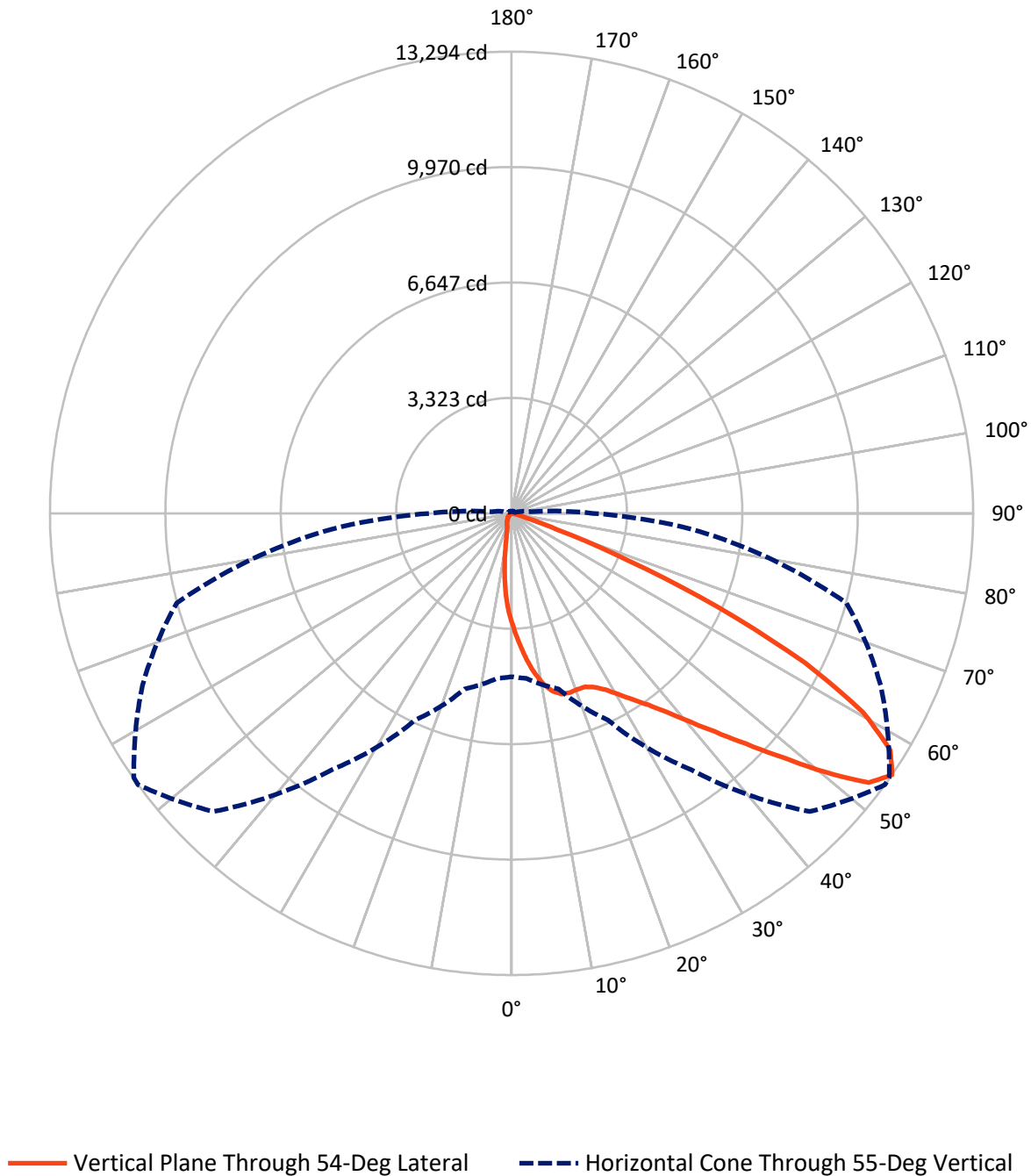
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P324937
CATALOG NUMBER: GAN-SA3D-827-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324937

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	711.2	0.0	711.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13543.8	0.0	13543.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	14255.0	0.0	14255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	2.1
10°-20°	806.3	5.7
20°-30°	1376.6	9.7
30°-40°	2209.2	15.5
40°-50°	3530.4	24.8
50°-60°	3782.9	26.5
60°-70°	1942.2	13.6
70°-80°	294.2	2.1
80°-90°	19.2	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°	14255.0	100.0
0°-180°	14255.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324937

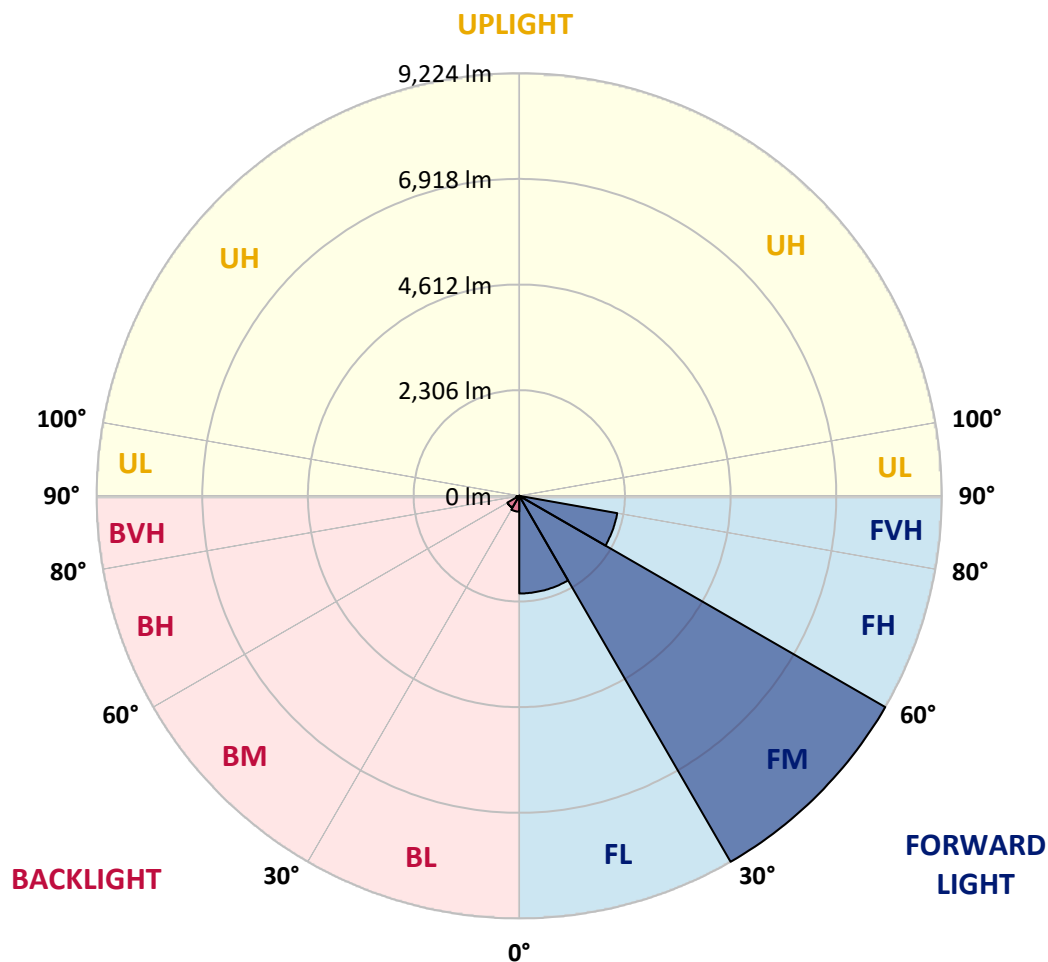
CATALOG NUMBER: GAN-SA3D-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2130.9	14.9			
FM	(30°-60°)	9223.6	64.7			
FH	(60°-80°)	2170.9	15.2			G2/5000
FVH	(80°-90°)	18.4	0.1			G1/100
BL	(0°-30°)	346.0	2.4	B1/500		
BM	(30°-60°)	298.9	2.1	B1/1000		
BH	(60°-80°)	65.5	0.5	B0/110		G0/110
BVH	(80°-90°)	0.8	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





REPORT NUMBER: P324937

CATALOG NUMBER: GAN-SA3D-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5
2.5°	4006.4	3946.7	3948.5	3921.4	3822.3	3744.7	3664.1	3645.0	3519.4	3387.7	3260.9
5°	4698.9	4655.2	4644.8	4592.4	4454.5	4308.6	4152.3	4116.0	3870.3	3600.7	3335.4
7.5°	5054.8	5055.4	5046.8	5027.7	4941.5	4799.9	4609.1	4570.9	4236.6	3832.2	3412.9
10°	4951.3	4974.7	5022.8	5086.2	5152.0	5134.2	4990.7	4956.3	4593.1	4077.2	3499.1
12.5°	4710.0	4713.1	4766.7	4870.7	5060.3	5254.8	5257.3	5245.6	4933.5	4333.3	3593.9
15°	4590.0	4601.7	4621.4	4688.5	4868.2	5179.7	5402.6	5419.2	5245.6	4605.4	3694.9
17.5°	4668.8	4685.4	4668.8	4676.8	4780.8	5060.9	5427.8	5470.3	5518.3	4874.4	3790.3
20°	4882.4	4897.8	4868.2	4835.6	4855.9	5026.4	5410.0	5467.2	5731.9	5113.2	3870.3
22.5°	5170.5	5176.7	5131.7	5078.2	5063.4	5143.4	5424.7	5483.8	5903.1	5329.3	3920.8
25°	5487.5	5493.1	5437.1	5375.5	5340.4	5373.0	5546.0	5590.3	6053.9	5535.6	3949.7
27.5°	5832.9	5837.8	5767.6	5691.9	5651.3	5652.5	5746.1	5793.5	6214.6	5770.7	3973.1
30°	6198.0	6195.5	6130.8	6025.6	5973.9	5972.6	6034.2	6082.2	6447.3	6072.4	4005.2
32.5°	6607.9	6603.0	6511.3	6380.8	6322.3	6330.9	6385.7	6413.4	6736.0	6393.7	4062.4
35°	7147.8	7133.7	6995.2	6833.3	6725.5	6722.4	6768.6	6790.8	7104.1	6782.8	4157.8
37.5°	7848.4	7835.5	7647.7	7412.5	7261.1	7204.5	7259.3	7287.6	7629.2	7282.0	4311.1
40°	8539.1	8526.2	8414.8	8199.3	7966.0	7829.9	7873.0	7903.2	8284.9	7887.8	4504.4
42.5°	9015.6	9026.7	9065.5	9083.3	8864.8	8579.1	8598.8	8630.2	8973.7	8535.4	4725.4
45°	9141.2	9165.2	9384.3	9814.7	9896.5	9673.7	9467.4	9484.7	9673.7	9183.0	4946.4
47.5°	8763.8	8808.1	9231.1	10031.3	10724.5	10882.1	10491.8	10469.0	10345.3	9706.9	5103.4
50°	7906.3	7946.9	8494.8	9678.6	10975.7	12035.8	11719.3	11652.2	10934.4	10020.3	5158.8
52.5°	6665.2	6714.4	7159.5	8568.0	10502.3	12550.4	12881.6	12825.6	11366.6	10044.9	5168.0
55°	4706.9	4766.7	5237.6	6566.7	9002.0	12141.0	13293.5	13276.8	11725.5	9979.6	5187.7
57.5°	2645.3	2688.4	3196.2	4209.5	6593.2	10574.9	12863.1	12973.3	11942.2	9866.4	5217.3
60°	1174.6	1186.3	1449.1	2095.5	3859.9	8081.7	11631.3	11817.2	11756.3	9714.9	5267.1
62.5°	651.3	641.5	641.5	871.1	1677.5	5003.1	9484.7	9791.9	10962.8	9535.8	5269.6
65°	510.3	501.1	474.6	478.3	639.0	2220.5	6567.9	7114.0	9455.8	9010.7	5092.3
67.5°	432.8	424.8	398.3	387.8	397.1	732.6	3608.7	4175.7	7174.9	7645.9	4410.8
70°	365.7	360.1	346.6	333.7	310.3	362.0	1380.8	1766.2	4421.3	5086.2	3010.9
72.5°	294.3	291.8	296.7	285.6	257.3	241.3	472.2	571.9	1986.0	2269.8	1240.5
75°	253.6	252.4	254.9	243.8	211.8	168.1	240.1	262.2	560.2	555.3	251.2
77.5°	165.0	166.8	211.2	206.2	182.2	112.0	124.4	134.2	169.9	127.4	76.3
80°	105.3	104.0	107.1	171.1	163.8	85.6	62.2	65.3	81.9	62.8	36.9
82.5°	64.0	62.8	70.2	80.0	82.5	59.7	38.2	38.8	51.1	40.6	19.7
85°	5.5	7.4	42.5	39.4	28.3	18.5	18.5	19.7	27.1	24.0	11.1
87.5°	0.0	0.0	7.4	11.1	6.2	6.8	6.8	7.4	10.5	10.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324937

CATALOG NUMBER: GAN-SA3D-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5
2.5°	3195.0	3131.0	3001.7	2877.4	2772.1	2670.5	2554.8	2440.3	2386.7	2365.2	2343.0
5°	3200.6	3068.8	2802.3	2533.8	2255.6	2005.0	1791.4	1572.3	1462.7	1414.7	1392.5
7.5°	3207.9	3007.2	2576.3	2125.7	1677.5	1337.7	1041.0	850.2	767.7	754.7	722.7
10°	3209.2	2932.8	2314.1	1675.1	1124.7	806.4	620.5	522.0	485.7	479.6	469.1
12.5°	3211.6	2844.7	2022.9	1240.5	749.8	539.3	448.8	416.2	406.3	405.7	405.7
15°	3219.0	2752.4	1720.6	893.9	538.7	427.2	394.0	381.1	377.4	379.2	378.6
17.5°	3219.0	2643.4	1423.9	666.1	435.2	384.1	365.7	357.1	355.8	357.7	358.3
20°	3195.6	2511.1	1151.8	518.3	386.0	356.4	339.8	331.8	328.7	330.0	330.6
22.5°	3139.6	2348.5	930.2	429.1	353.4	331.2	313.3	301.0	296.1	296.7	296.7
25°	3052.2	2155.9	727.6	371.2	326.9	304.1	283.2	269.0	265.9	265.3	266.6
27.5°	2940.1	1942.9	579.3	326.9	295.5	273.9	253.0	241.3	238.9	239.5	240.1
30°	2830.0	1721.9	456.8	289.3	260.4	240.1	224.1	218.5	218.5	220.4	221.0
32.5°	2729.0	1509.5	361.4	256.7	229.0	210.5	201.3	200.7	203.8	205.0	205.6
35°	2642.2	1313.1	299.2	231.5	204.4	188.4	185.3	187.8	191.5	193.9	194.5
37.5°	2580.6	1137.6	261.6	210.5	185.3	172.4	171.8	176.7	181.6	187.1	188.4
40°	2554.8	989.3	235.8	192.1	169.9	160.1	158.2	165.0	174.2	182.2	183.5
42.5°	2533.2	868.0	213.6	174.2	157.6	143.4	142.8	151.4	162.5	170.5	172.4
45°	2514.8	770.7	193.3	155.1	141.6	123.1	125.0	136.0	144.7	153.3	155.1
47.5°	2476.6	690.7	171.1	134.8	117.0	105.3	109.0	118.8	125.6	138.5	140.4
50°	2408.3	625.5	148.4	110.2	95.4	91.1	96.7	103.4	112.0	123.1	124.4
52.5°	2362.1	576.2	128.7	92.3	78.8	80.0	85.6	88.0	93.0	97.3	96.0
55°	2335.6	549.1	112.7	80.0	67.1	70.8	72.0	68.9	66.5	62.2	60.3
57.5°	2332.5	524.5	100.3	69.6	59.1	60.9	56.6	46.2	37.6	32.6	31.4
60°	2327.6	494.3	90.5	58.5	52.3	49.9	40.6	25.2	17.9	16.6	16.6
62.5°	2274.1	447.5	83.1	49.2	44.3	37.6	23.4	11.7	9.8	10.5	10.5
65°	2103.5	382.3	75.7	40.0	35.1	27.1	11.7	6.8	3.7	4.3	4.3
67.5°	1788.3	304.7	67.7	30.8	26.5	17.2	6.8	3.1	0.0	0.0	0.0
70°	1197.4	189.0	57.3	21.5	17.2	10.5	4.9	0.6	0.0	0.0	0.0
72.5°	459.2	102.2	46.2	12.9	11.1	7.4	3.1	0.0	0.0	0.0	0.0
75°	103.4	67.1	32.0	9.2	8.0	4.9	1.2	0.0	0.0	0.0	0.0
77.5°	39.4	48.6	18.5	6.2	5.5	3.1	0.0	0.0	0.0	0.0	0.0
80°	19.1	28.9	8.6	3.7	3.1	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.8	11.1	3.7	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	5.5	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.8	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)