

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: P324979

Luminaire Tested: **GAN-SA5D-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324979
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-SA5D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 25227 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

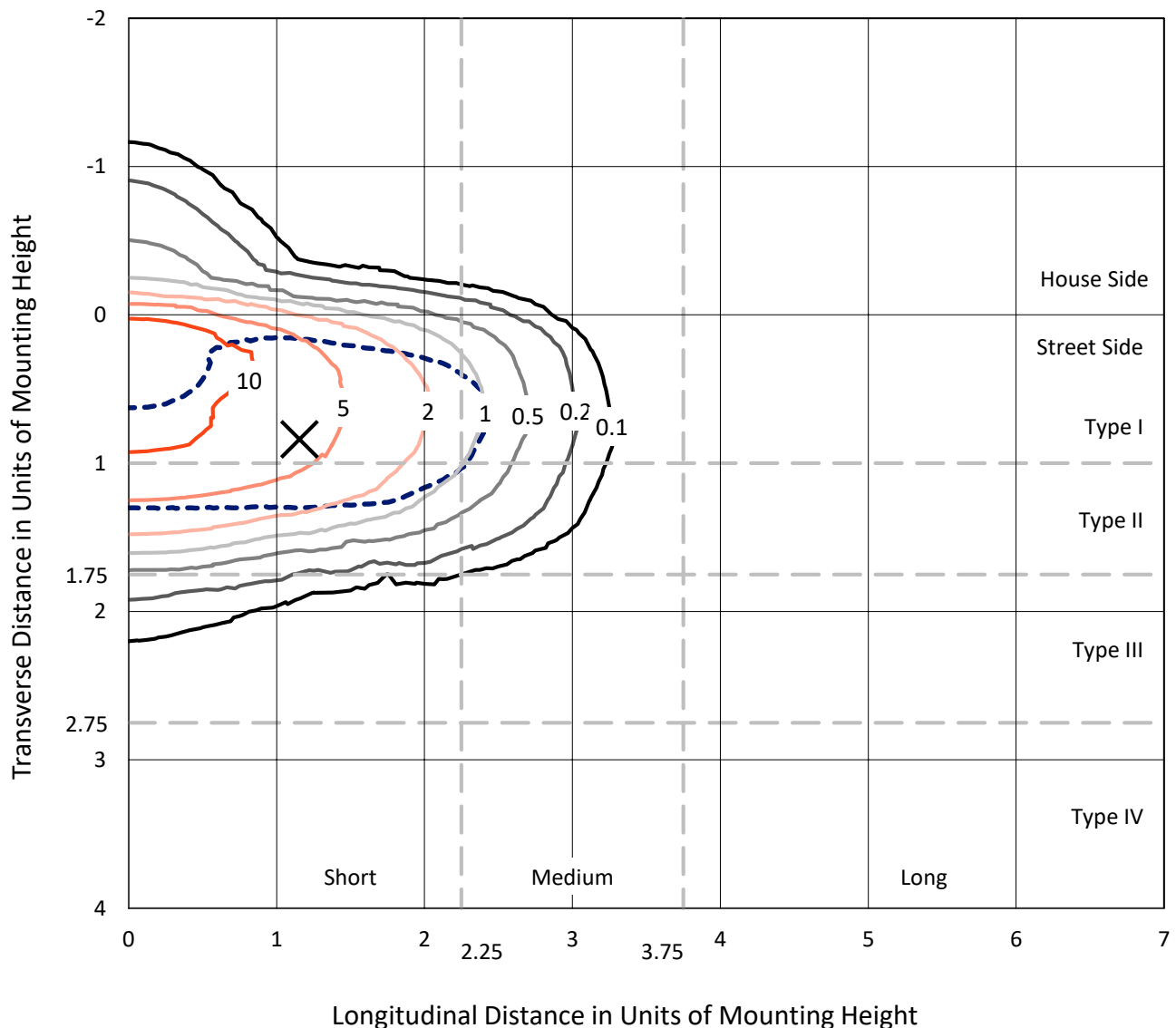
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324979
 CATALOG NUMBER: GAN-SA5D-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

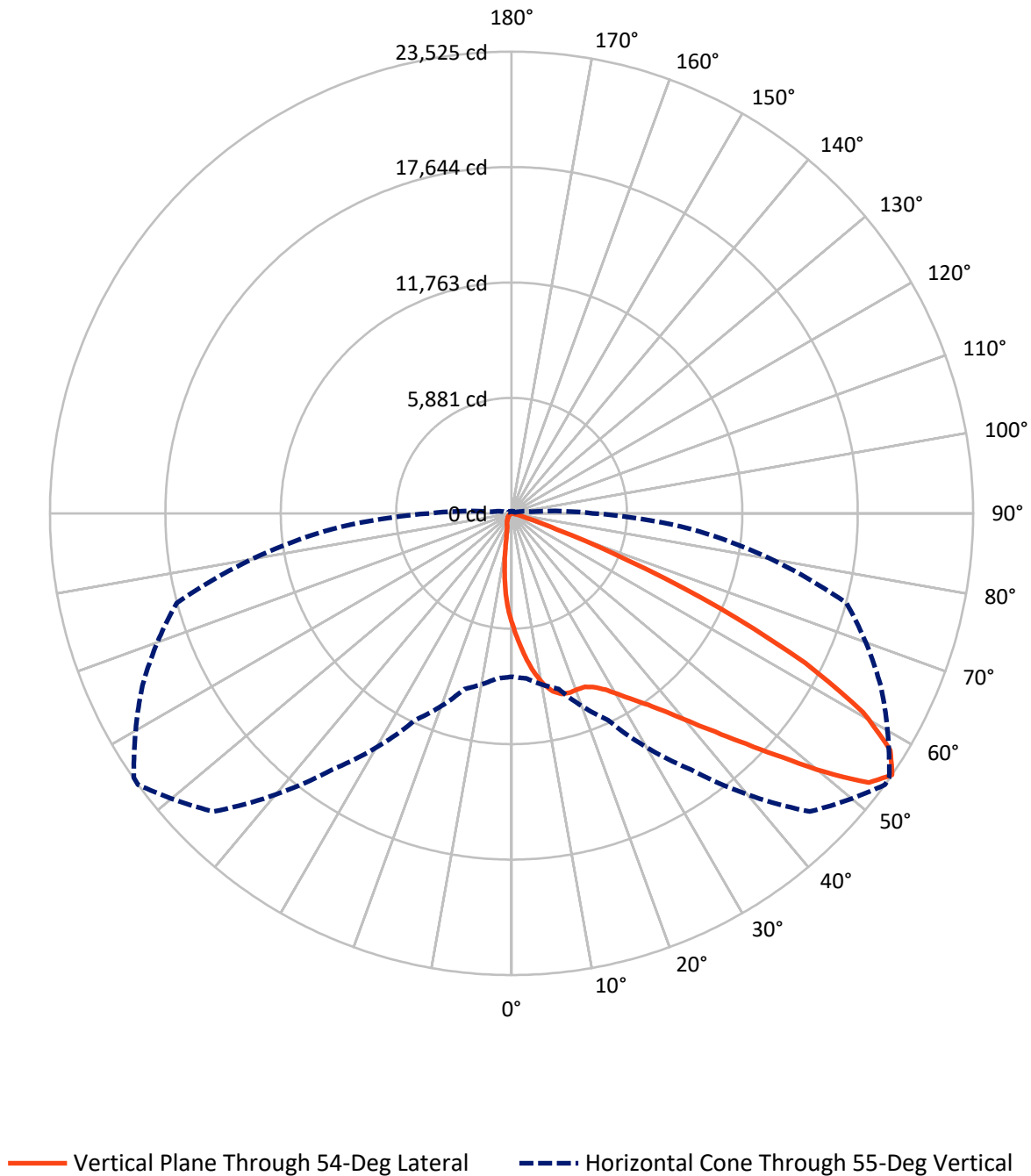
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P324979
CATALOG NUMBER: GAN-SA5D-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324979

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1258.6	0.0	1258.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23968.4	0.0	23968.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	25227.0	0.0	25227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.3	2.1
10°-20°	1426.9	5.7
20°-30°	2436.2	9.7
30°-40°	3909.7	15.5
40°-50°	6247.7	24.8
50°-60°	6694.5	26.5
60°-70°	3437.2	13.6
70°-80°	520.7	2.1
80°-90°	33.9	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°	25227.0	100.0
0°-180°	25227.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324979

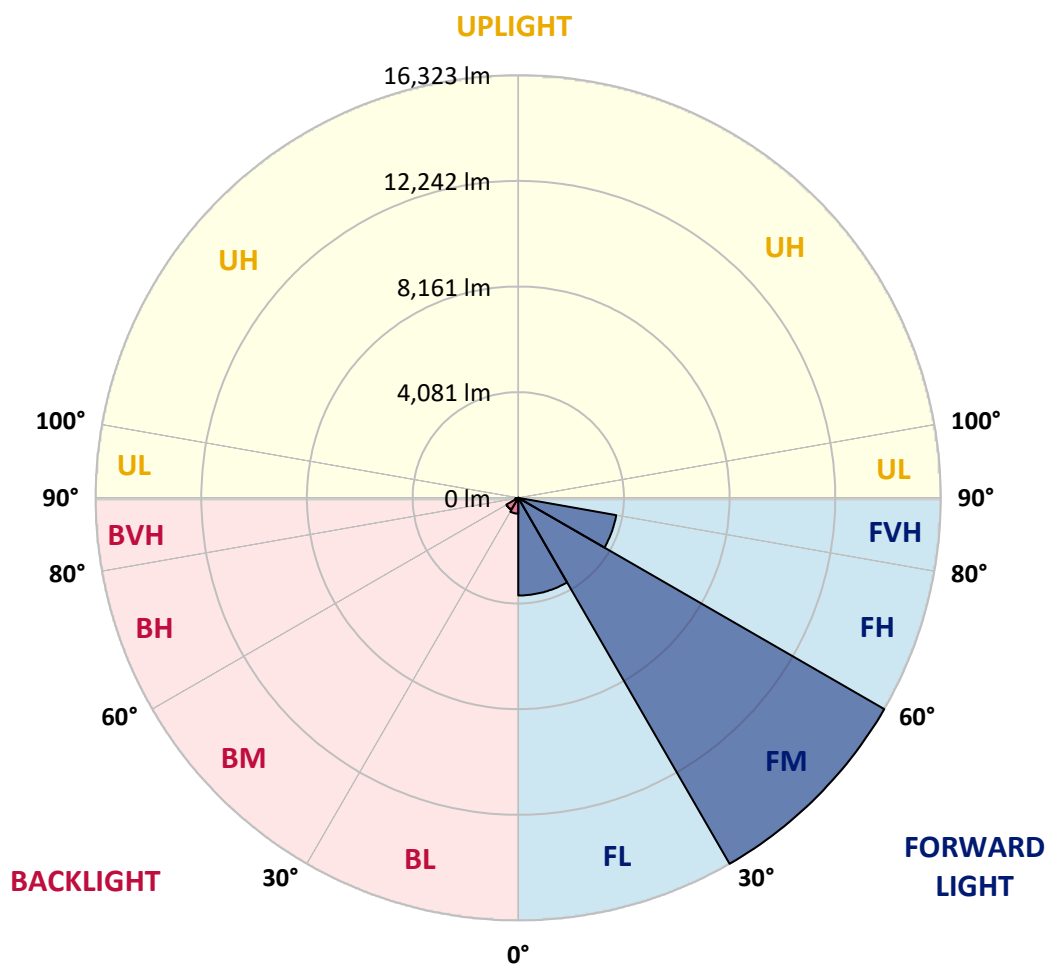
CATALOG NUMBER: GAN-SA5D-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3771.0	14.9			
FM	(30°-60°)	16323.0	64.7			
FH	(60°-80°)	3841.8	15.2			G2/5000
FVH	(80°-90°)	32.5	0.1			G1/100
BL	(0°-30°)	612.4	2.4	B2/1000		
BM	(30°-60°)	528.9	2.1	B1/1000		
BH	(60°-80°)	116.0	0.5	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P324979

CATALOG NUMBER: GAN-SA5D-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8
2.5°	7090.1	6984.4	6987.7	6939.7	6764.3	6627.1	6484.3	6450.6	6228.3	5995.2	5770.8
5°	8315.7	8238.3	8219.8	8127.2	7883.2	7625.0	7348.3	7284.0	6849.3	6372.1	5902.6
7.5°	8945.4	8946.5	8931.2	8897.5	8744.9	8494.4	8156.6	8089.1	7497.5	6781.8	6039.9
10°	8762.4	8803.8	8888.7	9001.0	9117.5	9085.9	8832.1	8771.1	8128.3	7215.4	6192.4
12.5°	8335.3	8340.8	8435.5	8619.6	8955.2	9299.5	9303.8	9283.1	8730.8	7668.6	6360.2
15°	8122.9	8143.6	8178.4	8297.2	8615.3	9166.5	9560.9	9590.3	9283.1	8150.1	6538.8
17.5°	8262.3	8291.7	8262.3	8276.5	8460.6	8956.3	9605.6	9680.8	9765.7	8626.2	6707.7
20°	8640.3	8667.6	8615.3	8557.6	8593.5	8895.3	9574.0	9675.3	10143.8	9048.9	6849.3
22.5°	9150.2	9161.1	9081.6	8986.8	8960.6	9102.3	9600.1	9704.7	10446.6	9431.3	6938.6
25°	9711.3	9721.1	9621.9	9513.0	9450.9	9508.6	9814.8	9893.2	10713.6	9796.2	6989.8
27.5°	10322.4	10331.2	10207.0	10073.0	10001.1	10003.2	10168.8	10252.7	10997.9	10212.4	7031.2
30°	10968.5	10964.1	10849.7	10663.4	10571.9	10569.7	10678.7	10763.7	11409.7	10746.2	7087.9
32.5°	11694.0	11685.3	11523.0	11292.0	11188.5	11203.8	11300.8	11349.8	11920.7	11314.9	7189.2
35°	12649.5	12624.4	12379.3	12092.8	11902.1	11896.7	11978.4	12017.6	12572.1	12003.4	7358.1
37.5°	13889.3	13866.4	13534.1	13117.9	12849.9	12749.7	12846.7	12896.8	13501.4	12887.0	7629.3
40°	15111.6	15088.7	14891.6	14510.3	14097.4	13856.6	13932.8	13986.2	14661.7	13959.0	7971.4
42.5°	15954.8	15974.5	16043.1	16074.7	15687.9	15182.4	15217.3	15272.9	15880.8	15105.1	8362.5
45°	16177.1	16219.6	16607.4	17368.9	17513.8	17119.5	16754.5	16785.0	17119.5	16251.2	8753.6
47.5°	15509.3	15587.7	16336.2	17752.4	18979.1	19258.0	18567.3	18527.0	18308.0	17178.3	9031.5
50°	13991.7	14063.6	15033.2	17128.2	19423.6	21299.6	20739.7	20620.9	19350.6	17732.8	9129.5
52.5°	11795.4	11882.5	12670.2	15162.8	18585.8	22210.4	22796.5	22697.4	20115.4	17776.4	9145.8
55°	8329.9	8435.5	9269.0	11621.1	15930.9	21485.9	23525.4	23496.0	20750.6	17660.9	9180.7
57.5°	4681.3	4757.6	5656.4	7449.6	11667.9	18714.4	22763.8	22958.9	21134.0	17460.5	9233.0
60°	2078.7	2099.4	2564.5	3708.5	6830.8	14302.2	20583.9	20912.9	20805.0	17192.5	9321.2
62.5°	1152.6	1135.2	1135.2	1541.6	2968.7	8853.9	16785.0	17328.6	19400.7	16875.4	9325.6
65°	903.1	886.8	840.0	846.5	1130.8	3929.6	11623.2	12589.6	16733.8	15946.1	9011.8
67.5°	765.9	751.7	704.9	686.3	702.7	1296.4	6386.3	7389.7	12697.4	13530.8	7805.8
70°	647.1	637.3	613.4	590.5	549.1	640.6	2443.6	3125.6	7824.4	9001.0	5328.5
72.5°	520.8	516.4	525.1	505.5	455.4	427.1	835.6	1012.1	3514.5	4016.8	2195.2
75°	448.8	446.7	451.0	431.4	374.8	297.4	424.9	464.1	991.4	982.7	444.5
77.5°	292.0	295.2	373.7	365.0	322.5	198.3	220.1	237.5	300.7	225.5	135.1
80°	186.3	184.1	189.6	302.9	289.8	151.4	110.0	115.5	144.9	111.1	65.4
82.5°	113.3	111.1	124.2	141.6	146.0	105.7	67.5	68.6	90.4	71.9	34.9
85°	9.8	13.1	75.2	69.7	50.1	32.7	32.7	34.9	47.9	42.5	19.6
87.5°	0.0	0.0	13.1	19.6	10.9	12.0	12.0	13.1	18.5	18.5	9.8
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: P324979

CATALOG NUMBER: GAN-SA5D-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8	5649.8
2.5°	5654.2	5540.9	5312.1	5092.0	4905.7	4726.0	4521.2	4318.5	4223.8	4185.6	4146.4
5°	5664.0	5430.9	4959.1	4484.1	3991.7	3548.3	3170.3	2782.4	2588.5	2503.5	2464.3
7.5°	5677.1	5321.9	4559.3	3761.8	2968.7	2367.4	1842.2	1504.5	1358.5	1335.7	1279.0
10°	5679.3	5190.1	4095.2	2964.4	1990.4	1427.2	1098.2	923.8	859.6	848.7	830.2
12.5°	5683.6	5034.3	3579.9	2195.2	1326.9	954.3	794.2	736.5	719.0	717.9	717.9
15°	5696.7	4870.9	3045.0	1581.9	953.3	756.1	697.2	674.4	667.8	671.1	670.0
17.5°	5696.7	4678.1	2519.9	1178.8	770.2	679.8	647.1	631.9	629.7	633.0	634.1
20°	5655.3	4443.8	2038.3	917.3	683.1	630.8	601.4	587.2	581.8	583.9	585.0
22.5°	5556.1	4156.2	1646.1	759.3	625.3	586.1	554.5	532.7	524.0	525.1	525.1
25°	5401.4	3815.2	1287.7	656.9	578.5	538.2	501.1	476.1	470.6	469.5	471.7
27.5°	5203.2	3438.3	1025.2	578.5	522.9	484.8	447.8	427.1	422.7	423.8	424.9
30°	5008.2	3047.2	808.4	512.0	460.8	424.9	396.6	386.8	386.8	390.0	391.1
32.5°	4829.5	2671.3	639.5	454.3	405.3	372.6	356.2	355.2	360.6	362.8	363.9
35°	4675.9	2323.8	529.5	409.6	361.7	333.4	327.9	332.3	338.8	343.2	344.3
37.5°	4566.9	2013.3	463.0	372.6	327.9	305.0	304.0	312.7	321.4	331.2	333.4
40°	4521.2	1750.7	417.3	339.9	300.7	283.3	280.0	292.0	308.3	322.5	324.7
42.5°	4483.0	1536.1	378.0	308.3	278.9	253.8	252.8	268.0	287.6	301.8	305.0
45°	4450.4	1364.0	342.1	274.5	250.6	217.9	221.2	240.8	256.0	271.3	274.5
47.5°	4382.8	1222.4	302.9	238.6	207.0	186.3	192.8	210.3	222.2	245.1	248.4
50°	4261.9	1106.9	262.6	195.0	168.9	161.2	171.0	183.0	198.3	217.9	220.1
52.5°	4180.2	1019.7	227.7	163.4	139.4	141.6	151.4	155.8	164.5	172.1	170.0
55°	4133.3	971.8	199.4	141.6	118.7	125.3	127.5	122.0	117.7	110.0	106.8
57.5°	4127.9	928.2	177.6	123.1	104.6	107.9	100.2	81.7	66.5	57.7	55.6
60°	4119.2	874.8	160.1	103.5	92.6	88.2	71.9	44.7	31.6	29.4	29.4
62.5°	4024.4	792.0	147.1	87.2	78.4	66.5	41.4	20.7	17.4	18.5	18.5
65°	3722.6	676.5	134.0	70.8	62.1	47.9	20.7	12.0	6.5	7.6	7.6
67.5°	3164.8	539.3	119.8	54.5	46.8	30.5	12.0	5.4	0.0	0.0	0.0
70°	2119.0	334.5	101.3	38.1	30.5	18.5	8.7	1.1	0.0	0.0	0.0
72.5°	812.7	180.8	81.7	22.9	19.6	13.1	5.4	0.0	0.0	0.0	0.0
75°	183.0	118.7	56.7	16.3	14.2	8.7	2.2	0.0	0.0	0.0	0.0
77.5°	69.7	86.1	32.7	10.9	9.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	33.8	51.2	15.3	6.5	5.4	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	17.4	19.6	6.5	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	9.8	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	3.3	1.1	1.1	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)