

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: P324740

Luminaire Tested: **GAN-SA6D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324740
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-SA6D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 31770 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

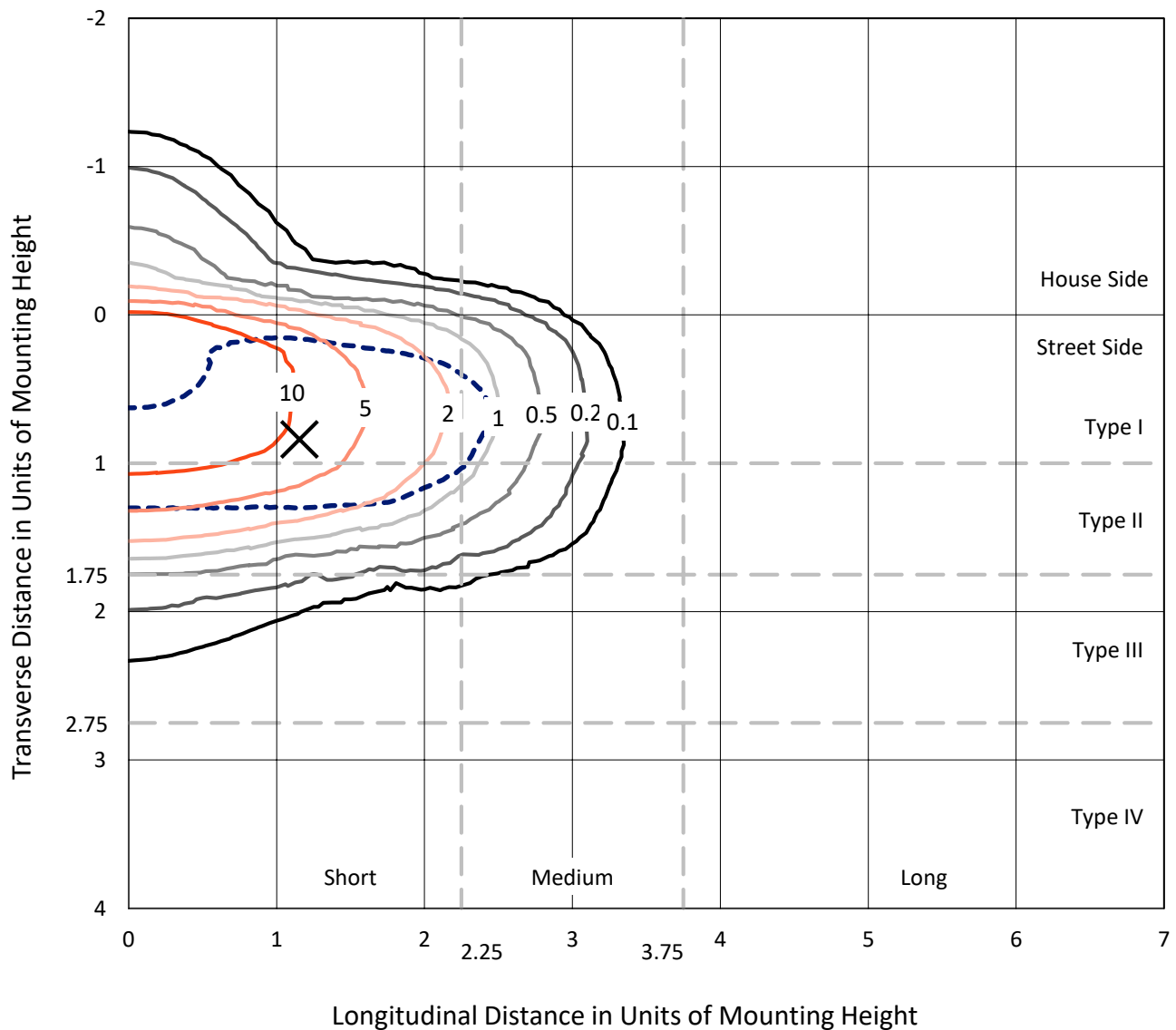
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

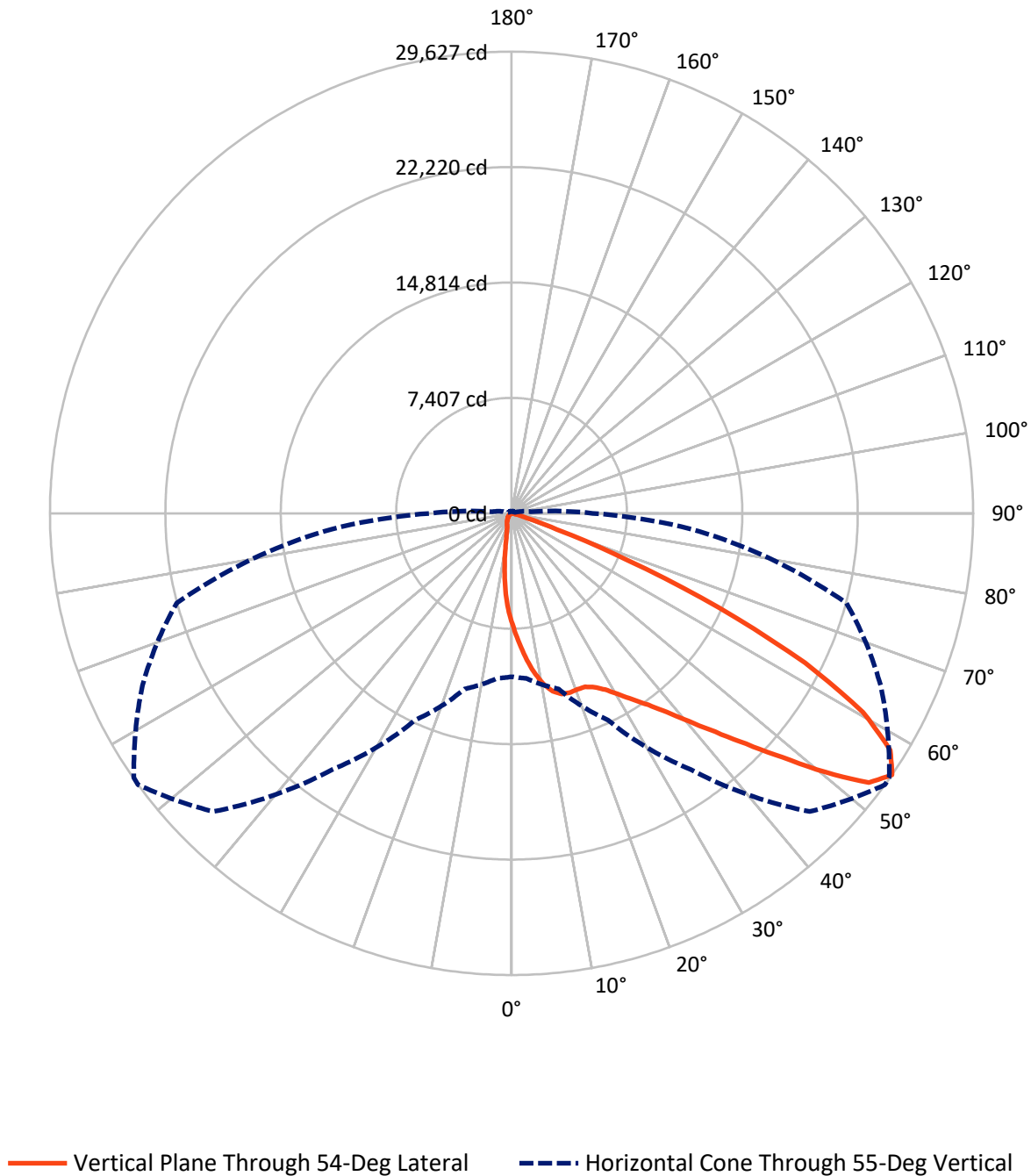
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	1585.1	0.0	1585.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30184.9	0.0	30184.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	31770.0	0.0	31770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.2	2.1
10°-20°	1797.0	5.7
20°-30°	3068.0	9.7
30°-40°	4923.7	15.5
40°-50°	7868.1	24.8
50°-60°	8430.9	26.5
60°-70°	4328.7	13.6
70°-80°	655.7	2.1
80°-90°	42.7	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°	31770.0	100.0
0°-180°	31770.0	100.0

Coefficient of Utilization



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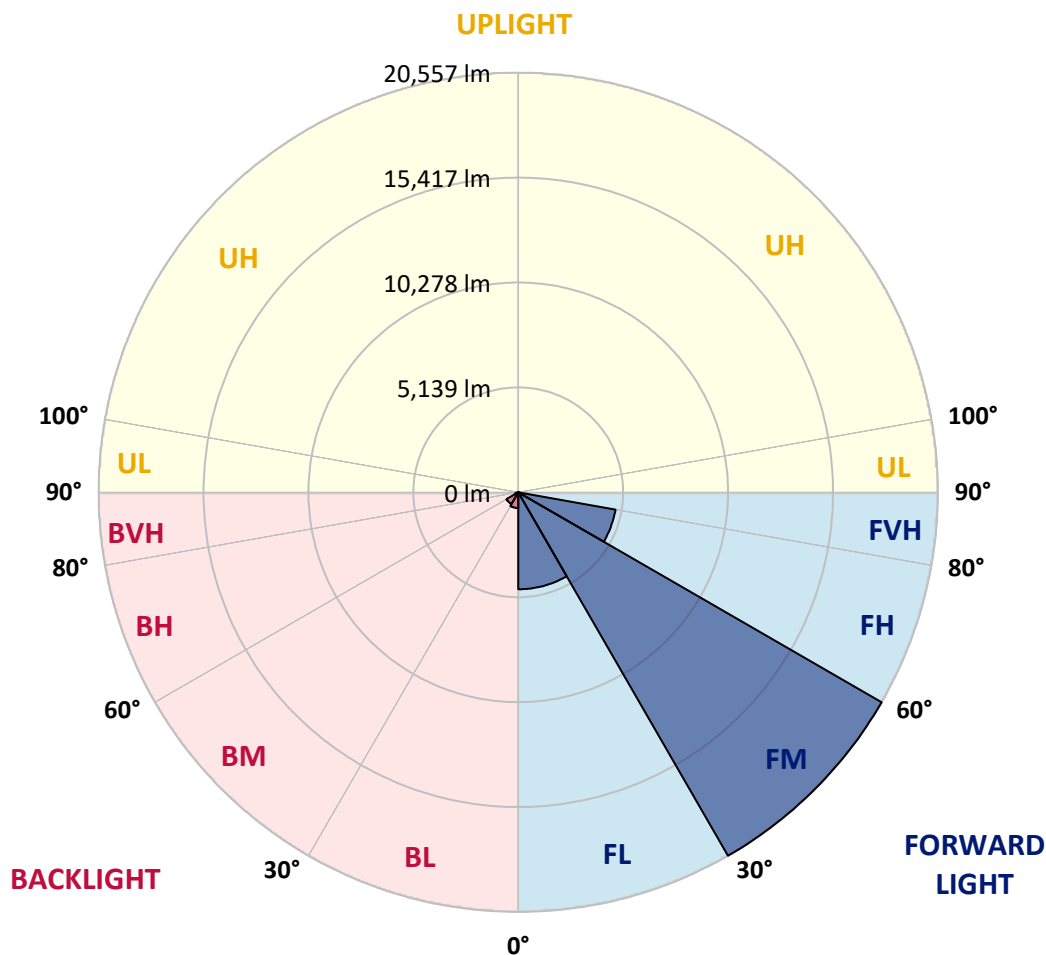
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4749.1	14.9			
FM	(30°-60°)	20556.6	64.7			
FH	(60°-80°)	4838.3	15.2			G2/5000
FVH	(80°-90°)	41.0	0.1			G1/100
BL	(0°-30°)	771.2	2.4	B2/1000		
BM	(30°-60°)	666.1	2.1	B1/1000		
BH	(60°-80°)	146.1	0.5	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2
2.5°	8929.0	8795.9	8800.0	8739.7	8518.8	8345.9	8166.2	8123.6	7843.7	7550.1	7267.5
5°	10472.5	10375.1	10351.8	10235.1	9927.8	9602.6	9254.2	9173.2	8625.8	8024.8	7433.5
7.5°	11265.5	11266.9	11247.7	11205.1	11013.1	10697.5	10272.2	10187.1	9442.1	8540.7	7606.4
10°	11035.0	11087.2	11194.2	11335.5	11482.3	11442.5	11122.8	11046.0	10236.5	9086.8	7798.5
12.5°	10497.2	10504.1	10623.4	10855.3	11277.9	11711.4	11716.9	11690.8	10995.2	9657.5	8009.8
15°	10229.7	10255.7	10299.6	10449.2	10849.8	11544.0	12040.7	12077.7	11690.8	10264.0	8234.8
17.5°	10405.3	10442.3	10405.3	10423.1	10655.0	11279.2	12096.9	12191.6	12298.6	10863.5	8447.4
20°	10881.4	10915.7	10849.8	10777.1	10822.4	11202.4	12057.2	12184.8	12774.7	11395.9	8625.8
22.5°	11523.4	11537.2	11437.0	11317.6	11284.7	11463.1	12090.1	12221.8	13156.1	11877.4	8738.3
25°	12230.0	12242.4	12117.5	11980.3	11902.1	11974.8	12360.4	12459.2	13492.3	12337.0	8802.8
27.5°	12999.7	13010.7	12854.3	12685.5	12595.0	12597.7	12806.3	12911.9	13850.4	12861.2	8854.9
30°	13813.3	13807.8	13663.8	13429.2	13313.9	13311.2	13448.4	13555.4	14369.0	13533.4	8926.2
32.5°	14727.1	14716.1	14511.7	14220.8	14090.5	14109.7	14231.8	14293.5	15012.5	14249.6	9053.8
35°	15930.3	15898.8	15590.1	15229.2	14989.1	14982.3	15085.2	15134.6	15832.9	15116.7	9266.5
37.5°	17491.7	17462.8	17044.4	16520.3	16182.8	16056.5	16178.7	16241.8	17003.2	16229.4	9608.1
40°	19031.0	19002.2	18753.9	18273.7	17753.7	17450.5	17546.5	17613.8	18464.4	17579.5	10038.9
42.5°	20093.0	20117.7	20204.1	20243.9	19756.8	19120.2	19164.1	19234.1	19999.7	19022.8	10531.5
45°	20372.9	20426.4	20914.8	21873.8	22056.3	21559.6	21100.0	21138.4	21559.6	20466.2	11024.0
47.5°	19531.8	19630.6	20573.2	22356.8	23901.7	24252.9	23383.0	23332.3	23056.5	21633.7	11373.9
50°	17620.6	17711.2	18932.3	21570.6	24461.4	26824.0	26118.8	25969.3	24369.5	22332.1	11497.4
52.5°	14854.7	14964.4	15956.4	19095.5	23406.4	27971.0	28709.2	28584.3	25332.7	22387.0	11518.0
55°	10490.3	10623.4	11673.0	14635.2	20062.8	27058.6	29627.0	29590.0	26132.5	22241.5	11561.9
57.5°	5895.5	5991.5	7123.4	9381.8	14694.1	23568.3	28668.0	28913.6	26615.5	21989.1	11627.7
60°	2617.8	2643.8	3229.7	4670.3	8602.5	18011.6	25922.6	26337.0	26201.1	21651.6	11738.9
62.5°	1451.6	1429.6	1429.6	1941.4	3738.7	11150.3	21138.4	21823.1	24432.6	21252.3	11744.3
65°	1137.4	1116.8	1057.8	1066.0	1424.1	4948.8	14637.9	15854.9	21074.0	20082.0	11349.2
67.5°	964.5	946.7	887.7	864.4	884.9	1632.7	8042.7	9306.3	15990.7	17040.3	9830.4
70°	815.0	802.6	772.4	743.6	691.5	806.7	3077.4	3936.3	9853.7	11335.5	6710.5
72.5°	655.8	650.3	661.3	636.6	573.5	537.8	1052.3	1274.6	4426.1	5058.6	2764.6
75°	565.3	562.5	568.0	543.3	472.0	374.6	535.1	584.5	1248.5	1237.5	559.8
77.5°	367.7	371.8	470.6	459.6	406.1	249.7	277.1	299.1	378.7	284.0	170.1
80°	234.6	231.9	238.7	381.4	365.0	190.7	138.6	145.4	182.5	139.9	82.3
82.5°	142.7	139.9	156.4	178.4	183.8	133.1	85.1	86.4	113.9	90.6	43.9
85°	12.3	16.5	94.7	87.8	63.1	41.2	41.2	43.9	60.4	53.5	24.7
87.5°	0.0	0.0	16.5	24.7	13.7	15.1	15.1	16.5	23.3	23.3	12.3
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°	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2	7115.2
2.5°	7120.7	6978.0	6689.9	6412.7	6178.1	5951.7	5693.8	5438.6	5319.3	5271.2	5221.8
5°	7133.0	6839.4	6245.4	5647.2	5027.0	4468.6	3992.5	3504.1	3259.9	3152.9	3103.5
7.5°	7149.5	6702.2	5741.8	4737.5	3738.7	2981.4	2320.1	1894.7	1710.9	1682.1	1610.7
10°	7152.2	6536.2	5157.4	3733.2	2506.6	1797.3	1383.0	1163.5	1082.5	1068.8	1045.5
12.5°	7157.7	6340.0	4508.4	2764.6	1671.1	1201.9	1000.2	927.5	905.5	904.1	904.1
15°	7174.2	6134.2	3834.7	1992.1	1200.5	952.2	878.1	849.3	841.0	845.2	843.8
17.5°	7174.2	5891.4	3173.4	1484.5	970.0	856.1	815.0	795.8	793.0	797.1	798.5
20°	7122.1	5596.4	2567.0	1155.2	860.2	794.4	757.3	739.5	732.6	735.4	736.8
22.5°	6997.2	5234.2	2073.1	956.3	787.5	738.1	698.3	670.9	659.9	661.3	661.3
25°	6802.4	4804.8	1621.7	827.3	728.5	677.8	631.1	599.6	592.7	591.3	594.1
27.5°	6552.7	4330.0	1291.1	728.5	658.6	610.5	563.9	537.8	532.3	533.7	535.1
30°	6307.1	3837.5	1018.0	644.8	580.4	535.1	499.4	487.1	487.1	491.2	492.5
32.5°	6082.1	3364.2	805.4	572.1	510.4	469.2	448.6	447.3	454.1	456.9	458.2
35°	5888.6	2926.5	666.8	515.9	455.5	419.8	413.0	418.5	426.7	432.2	433.6
37.5°	5751.4	2535.5	583.1	469.2	413.0	384.2	382.8	393.8	404.7	417.1	419.8
40°	5693.8	2204.8	525.5	428.1	378.7	356.7	352.6	367.7	388.3	406.1	408.9
42.5°	5645.8	1934.5	476.1	388.3	351.2	319.7	318.3	337.5	362.2	380.0	384.2
45°	5604.6	1717.7	430.8	345.7	315.6	274.4	278.5	303.2	322.4	341.6	345.7
47.5°	5519.6	1539.4	381.4	300.5	260.7	234.6	242.8	264.8	279.9	308.7	312.8
50°	5367.3	1394.0	330.7	245.6	212.7	203.1	215.4	230.5	249.7	274.4	277.1
52.5°	5264.4	1284.2	286.7	205.8	175.6	178.4	190.7	196.2	207.2	216.8	214.0
55°	5205.4	1223.8	251.1	178.4	149.5	157.8	160.5	153.7	148.2	138.6	134.5
57.5°	5198.5	1168.9	223.6	155.0	131.7	135.8	126.2	102.9	83.7	72.7	70.0
60°	5187.5	1101.7	201.7	130.3	116.6	111.1	90.6	56.3	39.8	37.0	37.0
62.5°	5068.2	997.4	185.2	109.8	98.8	83.7	52.1	26.1	22.0	23.3	23.3
65°	4688.1	852.0	168.8	89.2	78.2	60.4	26.1	15.1	8.2	9.6	9.6
67.5°	3985.7	679.1	150.9	68.6	59.0	38.4	15.1	6.9	0.0	0.0	0.0
70°	2668.5	421.2	127.6	48.0	38.4	23.3	11.0	1.4	0.0	0.0	0.0
72.5°	1023.5	227.8	102.9	28.8	24.7	16.5	6.9	0.0	0.0	0.0	0.0
75°	230.5	149.5	71.3	20.6	17.8	11.0	2.7	0.0	0.0	0.0	0.0
77.5°	87.8	108.4	41.2	13.7	12.3	6.9	0.0	0.0	0.0	0.0	0.0
80°	42.5	64.5	19.2	8.2	6.9	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	22.0	24.7	8.2	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	12.3	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.1	1.4	1.4	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)