

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: P321199

Luminaire Tested: **GAN-SA5B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19280 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

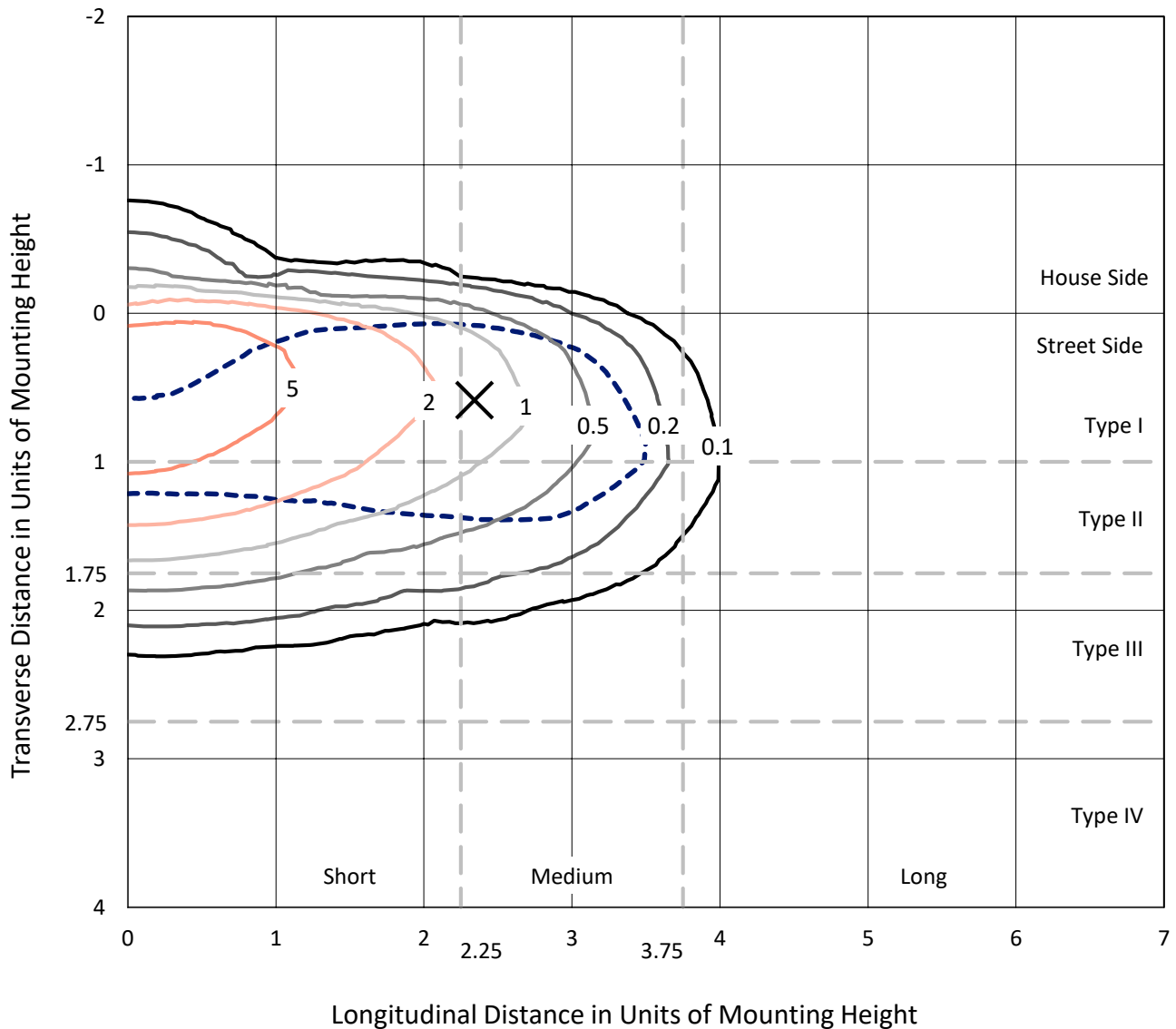
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

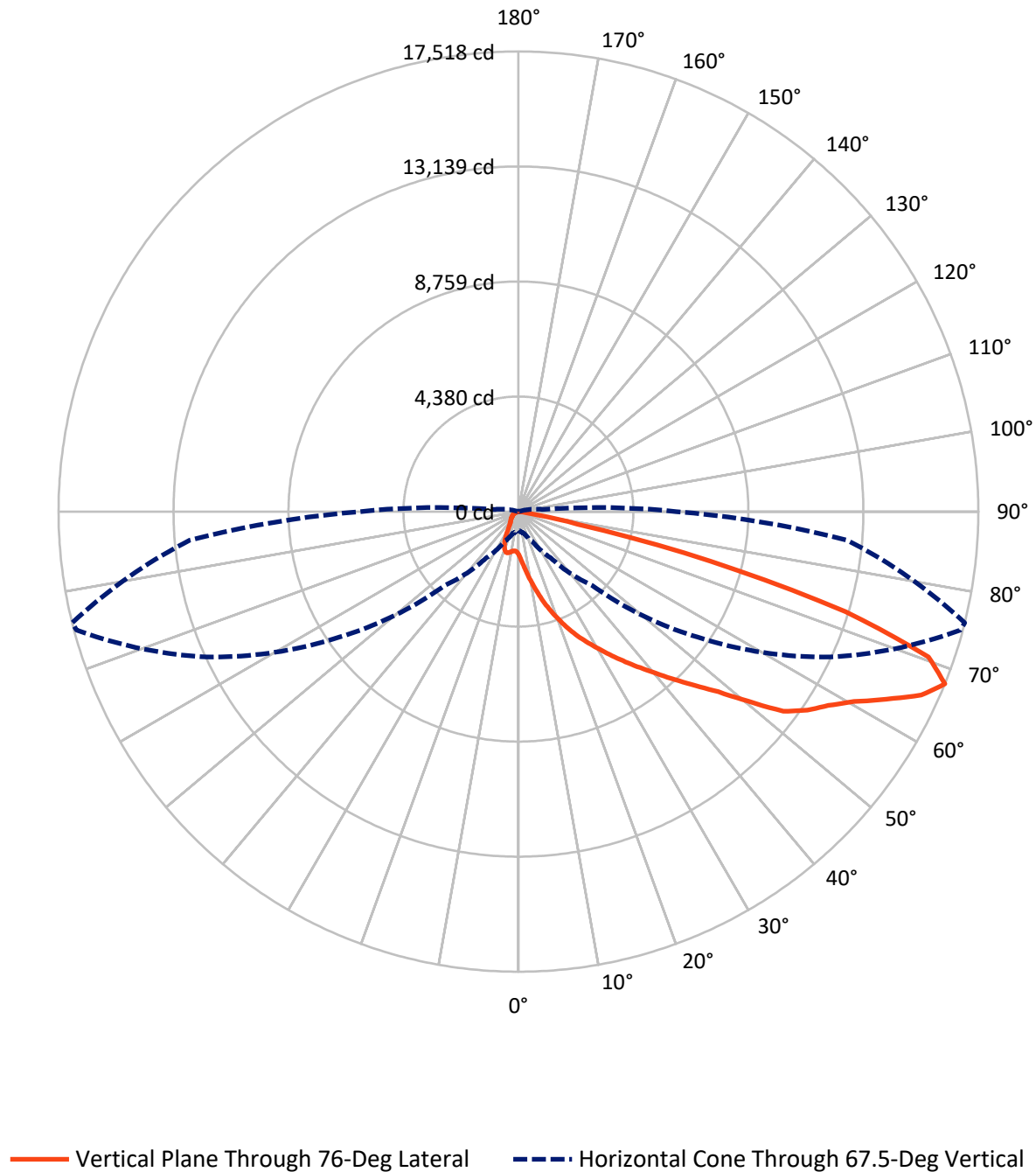
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	957.4	0.0	957.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18322.6	0.0	18322.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	19280.0	0.0	19280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.1
10°-20°	806.2	4.2
20°-30°	1640.3	8.5
30°-40°	2847.1	14.8
40°-50°	4022.6	20.9
50°-60°	4561.8	23.7
60°-70°	3783.6	19.6
70°-80°	1370.5	7.1
80°-90°	44.4	0.2
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°	19280.0	100.0
0°-180°	19280.0	100.0

Coefficient of Utilization



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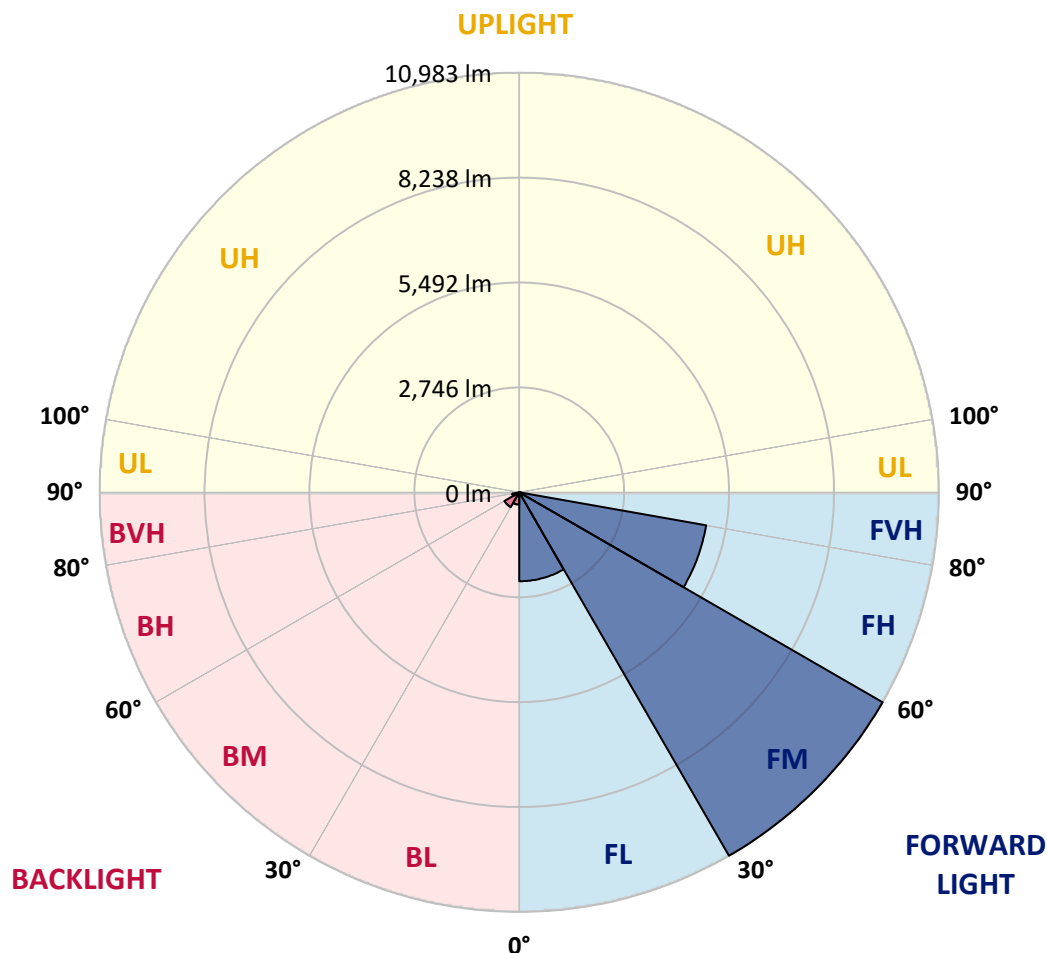
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2327.0	12.1			
FM	(30°-60°)	10983.4	57.0			
FH	(60°-80°)	4969.1	25.8			G2/5000
FVH	(80°-90°)	43.0	0.2			G1/100
BL	(0°-30°)	322.9	1.7	B1/500		
BM	(30°-60°)	448.1	2.3	B1/1000		
BH	(60°-80°)	185.0	1.0	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: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5
2.5°	2441.4	2386.5	2399.2	2363.7	2299.5	2167.7	2055.4	1948.9	1824.7	1820.5	1718.3
5°	3292.1	3245.7	3239.7	3167.9	3051.4	2827.5	2609.5	2361.2	2084.1	2063.8	1846.7
7.5°	4064.3	4027.1	4013.6	3928.2	3711.1	3493.2	3209.3	2844.4	2411.0	2373.8	2019.9
10°	4657.3	4639.6	4642.9	4582.1	4396.3	4193.5	3821.0	3355.5	2781.9	2724.4	2227.7
12.5°	5106.7	5110.9	5141.4	5104.2	5000.3	4849.9	4452.0	3900.4	3192.4	3113.9	2465.1
15°	5437.0	5458.2	5513.9	5560.4	5552.8	5422.7	5057.7	4453.7	3628.3	3541.3	2729.5
17.5°	5650.8	5674.4	5755.5	5858.6	5953.2	5922.8	5642.3	4987.6	4069.3	3968.8	3012.5
20°	5838.3	5866.2	5953.2	6089.2	6265.8	6303.8	6119.6	5505.5	4509.5	4387.0	3304.8
22.5°	6244.6	6243.8	6297.0	6376.4	6544.5	6642.5	6526.0	5986.1	4944.5	4817.0	3603.0
25°	6979.6	6951.7	6933.1	6870.6	6907.8	6968.6	6903.6	6435.6	5382.1	5252.9	3905.4
27.5°	7853.1	7870.0	7719.6	7551.5	7421.4	7358.9	7252.5	6852.0	5802.8	5660.9	4201.1
30°	8774.8	8779.8	8602.4	8387.9	8101.5	7864.1	7679.9	7249.9	6235.4	6080.8	4488.3
32.5°	9606.0	9573.1	9397.4	9105.1	8743.5	8476.6	8093.9	7694.3	6693.2	6543.7	4807.7
35°	10265.0	10226.1	10012.4	9746.3	9371.2	9102.6	8642.1	8137.8	7174.8	7028.6	5127.8
37.5°	10746.5	10700.9	10481.2	10207.5	9884.0	9727.7	9278.3	8620.2	7700.2	7543.1	5464.9
40°	10913.8	10874.1	10736.4	10536.1	10276.0	10240.5	9953.2	9175.2	8272.1	8104.9	5846.8
42.5°	10814.1	10775.2	10726.2	10658.6	10550.5	10584.3	10590.2	9807.9	8907.4	8742.7	6268.3
45°	10418.7	10384.1	10434.8	10533.6	10667.9	10835.2	11171.4	10488.0	9617.0	9441.3	6755.7
47.5°	9836.7	9811.3	9951.6	10198.2	10591.1	11052.3	11702.8	11202.7	10413.7	10250.6	7364.0
50°	9008.8	9004.6	9285.0	9735.3	10339.3	11157.1	12251.9	12015.4	11520.3	11348.8	8209.6
52.5°	7719.6	7728.1	8279.7	9000.3	9897.5	11086.1	12605.0	13059.5	12807.8	12629.5	8942.0
55°	6492.2	6542.9	6934.0	7973.1	9220.0	10822.5	12726.7	13547.0	13518.2	13349.3	9349.2
57.5°	5290.0	5382.1	5758.9	6729.6	8230.7	10215.1	12659.9	13758.2	14047.1	13917.8	9886.5
60°	3987.4	4029.6	4463.8	5371.1	6961.0	9106.8	12175.9	13873.0	14770.2	14680.7	10666.2
62.5°	2536.9	2642.5	3027.7	3902.9	5420.1	7567.6	11359.8	13871.4	15675.0	15724.0	11672.4
65°	1336.4	1459.8	1664.2	2418.6	3724.7	5848.4	10132.3	13741.3	16785.0	16853.4	12458.9
67.5°	720.6	756.1	864.2	1255.3	2160.1	3962.0	8328.7	13099.2	17427.9	17518.3	12568.7
70°	527.1	546.6	587.1	694.4	1087.2	2301.2	6077.4	11643.7	16599.2	16565.4	11167.2
72.5°	404.7	435.1	465.5	508.6	625.1	1228.3	3783.8	9117.8	13244.5	13021.5	8347.3
75°	319.3	324.4	367.5	406.3	468.9	699.5	1680.3	5310.3	8083.7	7555.8	4328.7
77.5°	255.1	258.5	283.8	317.6	376.8	459.6	520.4	2089.2	2580.8	2302.9	939.4
80°	151.2	159.7	211.2	245.0	312.6	289.8	190.1	453.6	403.0	364.9	158.0
82.5°	84.5	91.2	119.1	193.5	218.0	138.5	94.6	122.5	94.6	92.1	44.8
85°	0.0	4.2	76.9	120.0	88.7	30.4	39.7	40.5	27.9	26.2	17.7
87.5°	0.0	0.0	23.7	22.8	3.4	5.1	9.3	13.5	11.0	11.0	9.3
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°	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5	1635.5
2.5°	1667.6	1622.0	1535.8	1451.3	1380.4	1322.1	1269.7	1248.6	1231.7	1229.2	1215.6
5°	1741.9	1649.9	1485.1	1350.0	1259.6	1195.4	1140.5	1106.7	1080.5	1070.3	1061.0
7.5°	1854.3	1714.9	1478.4	1322.9	1214.8	1106.7	1005.3	895.5	827.0	800.9	785.6
10°	1991.2	1801.1	1503.7	1315.3	1126.1	898.0	729.9	590.5	533.9	515.3	510.2
12.5°	2150.8	1908.4	1547.6	1268.0	936.9	637.8	503.5	456.2	443.5	437.6	437.6
15°	2334.1	2025.8	1578.9	1131.2	692.7	482.4	435.9	413.9	400.4	392.8	393.7
17.5°	2521.7	2140.7	1563.7	932.6	511.1	429.2	394.5	370.9	352.3	344.7	343.0
20°	2710.9	2247.1	1479.2	694.4	432.5	389.4	350.6	324.4	305.8	298.2	296.5
22.5°	2906.9	2337.5	1330.5	509.4	388.6	345.5	307.5	281.3	263.6	256.8	253.4
25°	3097.8	2411.0	1122.7	412.3	347.2	304.1	267.8	243.3	227.2	220.5	219.6
27.5°	3276.1	2457.5	882.0	364.1	310.9	267.0	234.0	212.0	198.5	193.5	192.6
30°	3436.6	2461.7	652.2	328.6	278.8	234.9	204.4	185.0	173.2	168.1	166.4
32.5°	3598.8	2426.2	474.8	296.5	249.2	207.0	177.4	162.2	153.8	149.5	149.5
35°	3751.7	2344.3	370.0	268.6	220.5	179.9	156.3	145.3	140.2	136.0	136.0
37.5°	3901.2	2226.9	314.3	244.1	193.5	157.1	137.7	130.9	126.7	122.5	122.5
40°	4053.3	2079.0	285.5	221.3	171.5	139.4	122.5	116.6	112.4	109.0	108.1
42.5°	4240.0	1908.4	267.0	200.2	152.1	123.3	108.1	101.4	98.0	94.6	92.9
45°	4456.2	1761.4	251.7	179.1	136.0	109.8	93.8	87.0	81.9	77.7	76.9
47.5°	4768.0	1654.9	231.5	156.3	120.8	95.5	81.1	73.5	65.9	61.7	60.8
50°	5165.9	1567.1	205.3	136.0	105.6	81.1	67.6	58.3	51.5	47.3	47.3
52.5°	5363.5	1452.2	181.6	118.3	88.7	68.4	54.9	43.9	40.5	36.3	36.3
55°	5442.9	1364.3	158.0	100.5	73.5	56.6	43.1	33.8	31.3	28.7	27.9
57.5°	5666.0	1339.0	137.7	85.3	60.8	44.8	32.9	25.3	23.7	20.3	20.3
60°	6025.0	1351.7	119.1	72.7	49.0	34.6	24.5	19.4	17.7	14.4	14.4
62.5°	6412.8	1335.6	100.5	62.5	38.0	25.3	16.9	14.4	14.4	8.4	7.6
65°	6487.1	1189.5	86.2	51.5	29.6	18.6	11.0	9.3	12.7	1.7	0.0
67.5°	6020.8	922.5	74.3	39.7	22.0	14.4	8.4	4.2	11.0	0.0	0.0
70°	4814.4	586.3	60.0	28.7	16.9	11.8	6.8	1.7	8.4	0.0	0.0
72.5°	3404.5	340.4	47.3	20.3	14.4	9.3	5.1	0.0	5.1	0.0	0.0
75°	1721.7	181.6	29.6	15.2	11.0	6.8	3.4	0.0	0.8	0.0	0.0
77.5°	372.5	84.5	18.6	11.0	7.6	4.2	1.7	0.0	0.0	0.0	0.0
80°	81.1	37.2	11.8	6.8	4.2	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	29.6	19.4	5.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	10.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	3.4	0.8	0.8	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)