

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: P321392

Luminaire Tested: **GAN-SA8A-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321392
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-SA8A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 22161 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

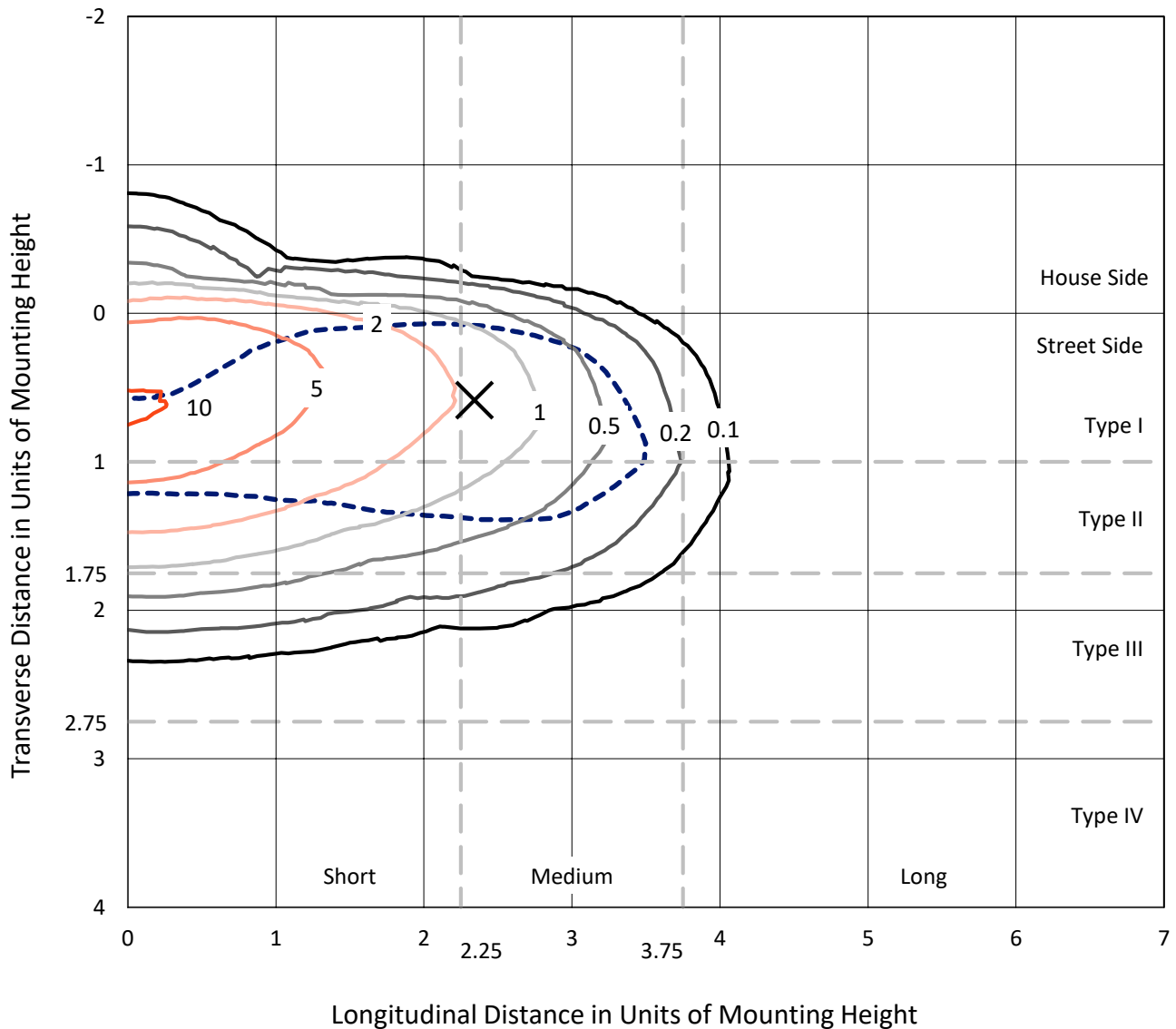
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

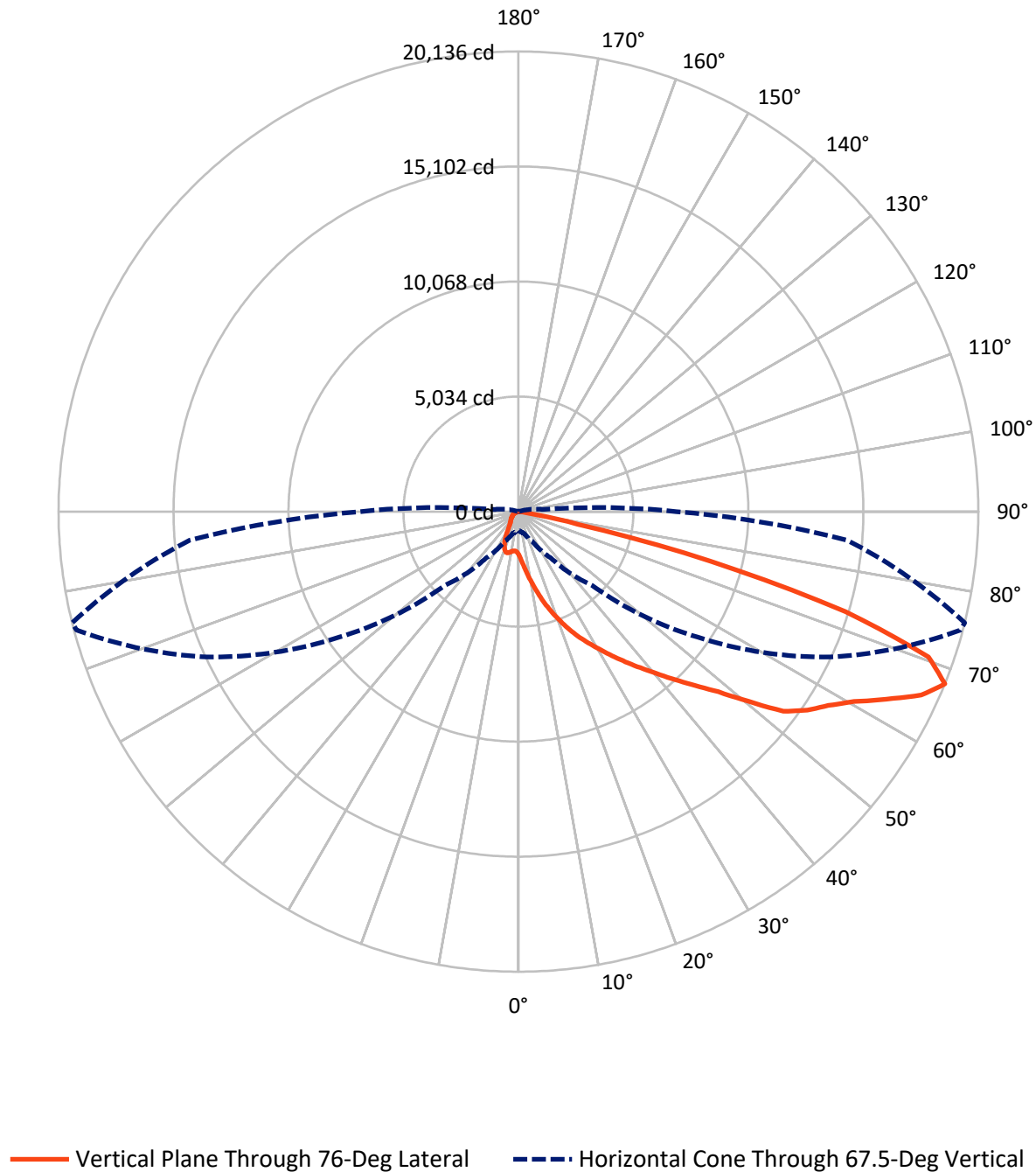
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	1100.5	0.0	1100.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21060.5	0.0	21060.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	22161.0	0.0	22161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	1.1
10°-20°	926.7	4.2
20°-30°	1885.5	8.5
30°-40°	3272.5	14.8
40°-50°	4623.7	20.9
50°-60°	5243.5	23.7
60°-70°	4349.0	19.6
70°-80°	1575.3	7.1
80°-90°	51.1	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°	22161.0	100.0
0°-180°	22161.0	100.0

Coefficient of Utilization



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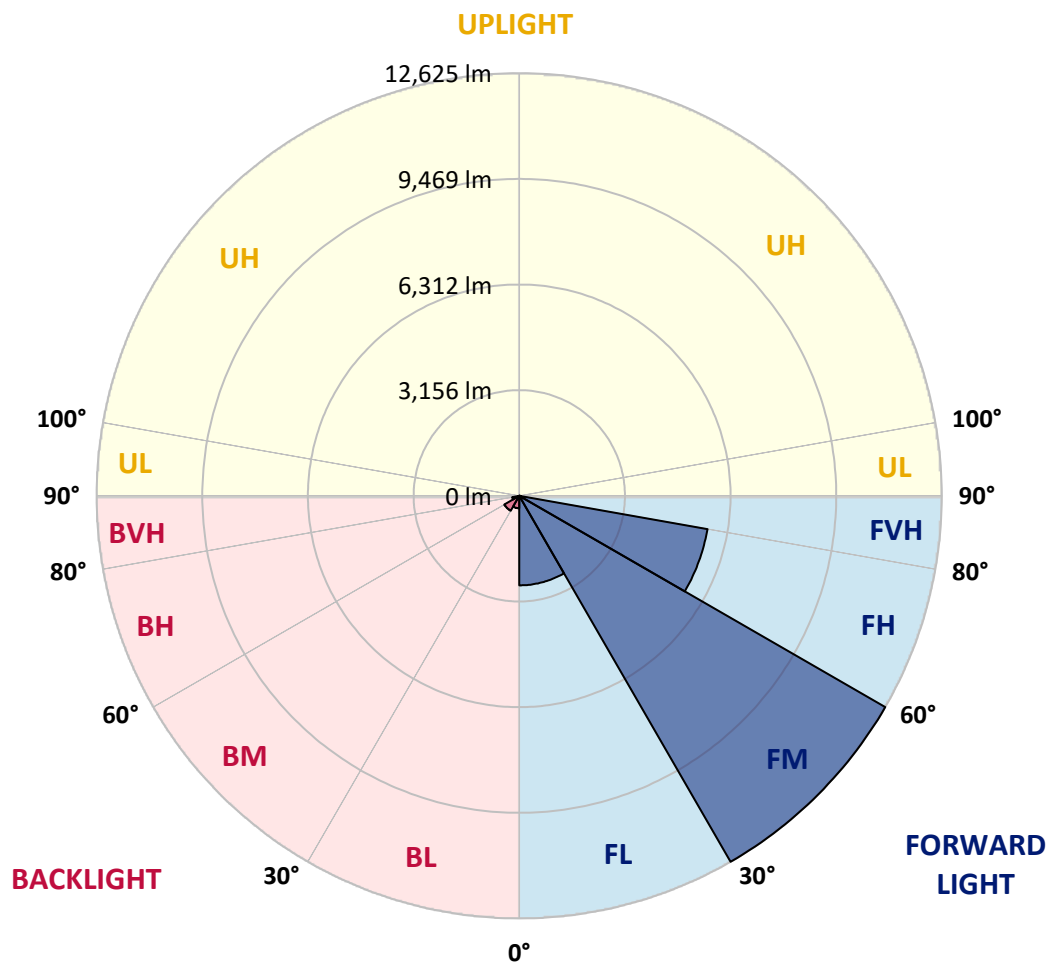
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2674.8	12.1			
FM	(30°-60°)	12624.7	57.0			
FH	(60°-80°)	5711.6	25.8			G3/7500
FVH	(80°-90°)	49.5	0.2			G1/100
BL	(0°-30°)	371.1	1.7	B1/500		
BM	(30°-60°)	515.0	2.3	B1/1000		
BH	(60°-80°)	212.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9
2.5°	2806.2	2743.1	2757.7	2716.9	2643.1	2491.6	2362.5	2240.1	2097.4	2092.5	1975.1
5°	3784.1	3730.7	3723.9	3641.3	3507.3	3250.0	2999.5	2714.0	2395.5	2372.2	2122.6
7.5°	4671.6	4628.9	4613.3	4515.2	4265.7	4015.2	3688.9	3269.4	2771.3	2728.6	2321.7
10°	5353.2	5332.8	5336.7	5266.8	5053.2	4820.1	4391.9	3856.9	3197.6	3131.5	2560.6
12.5°	5869.8	5874.7	5909.6	5866.9	5747.5	5574.6	5117.3	4483.2	3669.5	3579.2	2833.4
15°	6249.5	6273.8	6337.8	6391.3	6382.5	6233.0	5813.5	5119.2	4170.5	4070.5	3137.4
17.5°	6495.2	6522.3	6615.6	6734.0	6842.8	6807.8	6485.4	5732.9	4677.4	4561.9	3462.7
20°	6710.7	6742.8	6842.8	6999.1	7202.1	7245.8	7034.1	6328.1	5183.3	5042.5	3798.6
22.5°	7177.8	7176.8	7238.0	7329.3	7522.5	7635.1	7501.1	6880.6	5683.4	5536.8	4141.4
25°	8022.6	7990.5	7969.2	7897.3	7940.0	8009.9	7935.2	7397.2	6186.4	6037.8	4489.0
27.5°	9026.6	9046.0	8873.2	8679.9	8530.4	8458.6	8336.2	7875.9	6669.9	6506.8	4828.9
30°	10086.0	10091.8	9887.9	9641.3	9312.1	9039.2	8827.5	8333.3	7167.1	6989.4	5159.0
32.5°	11041.5	11003.6	10801.6	10465.7	10050.1	9743.2	9303.3	8844.0	7693.4	7521.5	5526.1
35°	11798.9	11754.2	11508.5	11202.7	10771.5	10462.7	9933.5	9353.8	8246.9	8078.9	5894.1
37.5°	12352.3	12299.9	12047.4	11732.8	11360.9	11181.3	10664.7	9908.3	8850.8	8670.2	6281.5
40°	12544.6	12499.0	12340.7	12110.6	11811.5	11770.7	11440.6	10546.2	9508.2	9316.0	6720.4
42.5°	12430.0	12385.4	12329.0	12251.4	12127.1	12165.9	12172.7	11273.5	10238.4	10049.1	7205.0
45°	11975.6	11935.8	11994.0	12107.6	12262.0	12454.3	12840.8	12055.2	11054.1	10852.1	7765.2
47.5°	11306.6	11277.4	11438.6	11722.2	12173.7	12703.9	13451.5	12876.7	11969.8	11782.4	8464.4
50°	10355.0	10350.1	10672.5	11190.0	11884.3	12824.3	14082.7	13810.8	13241.8	13044.7	9436.4
52.5°	8873.2	8882.9	9517.0	10345.2	11376.5	12742.7	14488.6	15011.0	14721.6	14516.7	10278.2
55°	7462.3	7520.5	7970.1	9164.5	10597.7	12439.7	14628.4	15571.3	15538.3	15344.1	10746.3
57.5°	6080.5	6186.4	6619.4	7735.1	9460.6	11741.6	14551.7	15814.0	16146.1	15997.6	11363.8
60°	4583.2	4631.8	5130.9	6173.7	8001.2	10467.6	13995.3	15946.1	16977.3	16874.4	12260.1
62.5°	2916.0	3037.4	3480.1	4486.1	6230.1	8698.4	13057.3	15944.1	18017.3	18073.6	13416.6
65°	1536.2	1677.9	1912.9	2780.0	4281.2	6722.4	11646.4	15794.6	19293.2	19371.8	14320.6
67.5°	828.3	869.1	993.4	1442.9	2482.9	4554.1	9573.3	15056.6	20032.1	20136.0	14446.8
70°	605.9	628.2	674.9	798.2	1249.7	2645.1	6985.5	13383.6	19079.6	19040.7	12835.9
72.5°	465.1	500.1	535.0	584.6	718.6	1411.9	4349.2	10480.2	15223.7	14967.3	9594.6
75°	367.0	372.9	422.4	467.1	538.9	804.0	1931.4	6103.8	9291.7	8684.8	4975.5
77.5°	293.2	297.1	326.3	365.1	433.1	528.2	598.1	2401.3	2966.5	2647.0	1079.8
80°	173.8	183.5	242.8	281.6	359.3	333.1	218.5	521.4	463.2	419.5	181.6
82.5°	97.1	104.9	136.9	222.4	250.5	159.2	108.8	140.8	108.8	105.8	51.5
85°	0.0	4.9	88.4	137.9	102.0	35.0	45.6	46.6	32.0	30.1	20.4
87.5°	0.0	0.0	27.2	26.2	3.9	5.8	10.7	15.5	12.6	12.6	10.7
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°	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9	1879.9
2.5°	1916.8	1864.4	1765.3	1668.2	1586.6	1519.6	1459.4	1435.2	1415.7	1412.8	1397.3
5°	2002.2	1896.4	1707.1	1551.7	1447.8	1374.0	1310.9	1272.0	1241.9	1230.3	1219.6
7.5°	2131.4	1971.2	1699.3	1520.6	1396.3	1272.0	1155.5	1029.3	950.6	920.5	903.0
10°	2288.7	2070.2	1728.4	1511.9	1294.4	1032.2	839.0	678.7	613.7	592.3	586.5
12.5°	2472.2	2193.5	1778.9	1457.5	1076.9	733.1	578.7	524.4	509.8	503.0	503.0
15°	2682.9	2328.5	1814.8	1300.2	796.2	554.5	501.0	475.8	460.3	451.5	452.5
17.5°	2898.5	2460.6	1797.4	1072.0	587.5	493.3	453.5	426.3	404.9	396.2	394.2
20°	3116.0	2582.9	1700.3	798.2	497.2	447.6	403.0	372.9	351.5	342.8	340.8
22.5°	3341.3	2686.8	1529.4	585.5	446.7	397.1	353.5	323.3	303.0	295.2	291.3
25°	3560.7	2771.3	1290.5	473.9	399.1	349.6	307.8	279.7	261.2	253.4	252.5
27.5°	3765.6	2824.7	1013.7	418.5	357.3	306.8	269.0	243.7	228.2	222.4	221.4
30°	3950.1	2829.6	749.6	377.7	320.4	269.9	235.0	212.7	199.1	193.2	191.3
32.5°	4136.5	2788.8	545.7	340.8	286.5	237.9	203.9	186.4	176.7	171.9	171.9
35°	4312.3	2694.6	425.3	308.8	253.4	206.8	179.6	167.0	161.2	156.3	156.3
37.5°	4484.2	2559.6	361.2	280.6	222.4	180.6	158.3	150.5	145.7	140.8	140.8
40°	4659.0	2389.7	328.2	254.4	197.1	160.2	140.8	134.0	129.1	125.3	124.3
42.5°	4873.5	2193.5	306.8	230.1	174.8	141.8	124.3	116.5	112.6	108.8	106.8
45°	5122.1	2024.6	289.4	205.9	156.3	126.2	107.8	100.0	94.2	89.3	88.4
47.5°	5480.4	1902.2	266.1	179.6	138.9	109.7	93.2	84.5	75.7	70.9	69.9
50°	5937.8	1801.2	236.0	156.3	121.4	93.2	77.7	67.0	59.2	54.4	54.4
52.5°	6165.0	1669.2	208.8	135.9	102.0	78.7	63.1	50.5	46.6	41.8	41.8
55°	6256.3	1568.2	181.6	115.6	84.5	65.1	49.5	38.8	35.9	33.0	32.0
57.5°	6512.6	1539.1	158.3	98.1	69.9	51.5	37.9	29.1	27.2	23.3	23.3
60°	6925.3	1553.6	136.9	83.5	56.3	39.8	28.2	22.3	20.4	16.5	16.5
62.5°	7371.0	1535.2	115.6	71.9	43.7	29.1	19.4	16.5	16.5	9.7	8.7
65°	7456.5	1367.2	99.0	59.2	34.0	21.4	12.6	10.7	14.6	1.9	0.0
67.5°	6920.5	1060.4	85.4	45.6	25.2	16.5	9.7	4.9	12.6	0.0	0.0
70°	5533.8	673.9	68.9	33.0	19.4	13.6	7.8	1.9	9.7	0.0	0.0
72.5°	3913.2	391.3	54.4	23.3	16.5	10.7	5.8	0.0	5.8	0.0	0.0
75°	1978.9	208.8	34.0	17.5	12.6	7.8	3.9	0.0	1.0	0.0	0.0
77.5°	428.2	97.1	21.4	12.6	8.7	4.9	1.9	0.0	0.0	0.0	0.0
80°	93.2	42.7	13.6	7.8	4.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	34.0	22.3	6.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	11.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.9	1.0	1.0	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)