

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: P322021

Luminaire Tested: **GAN-SA7D-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39042 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 448
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

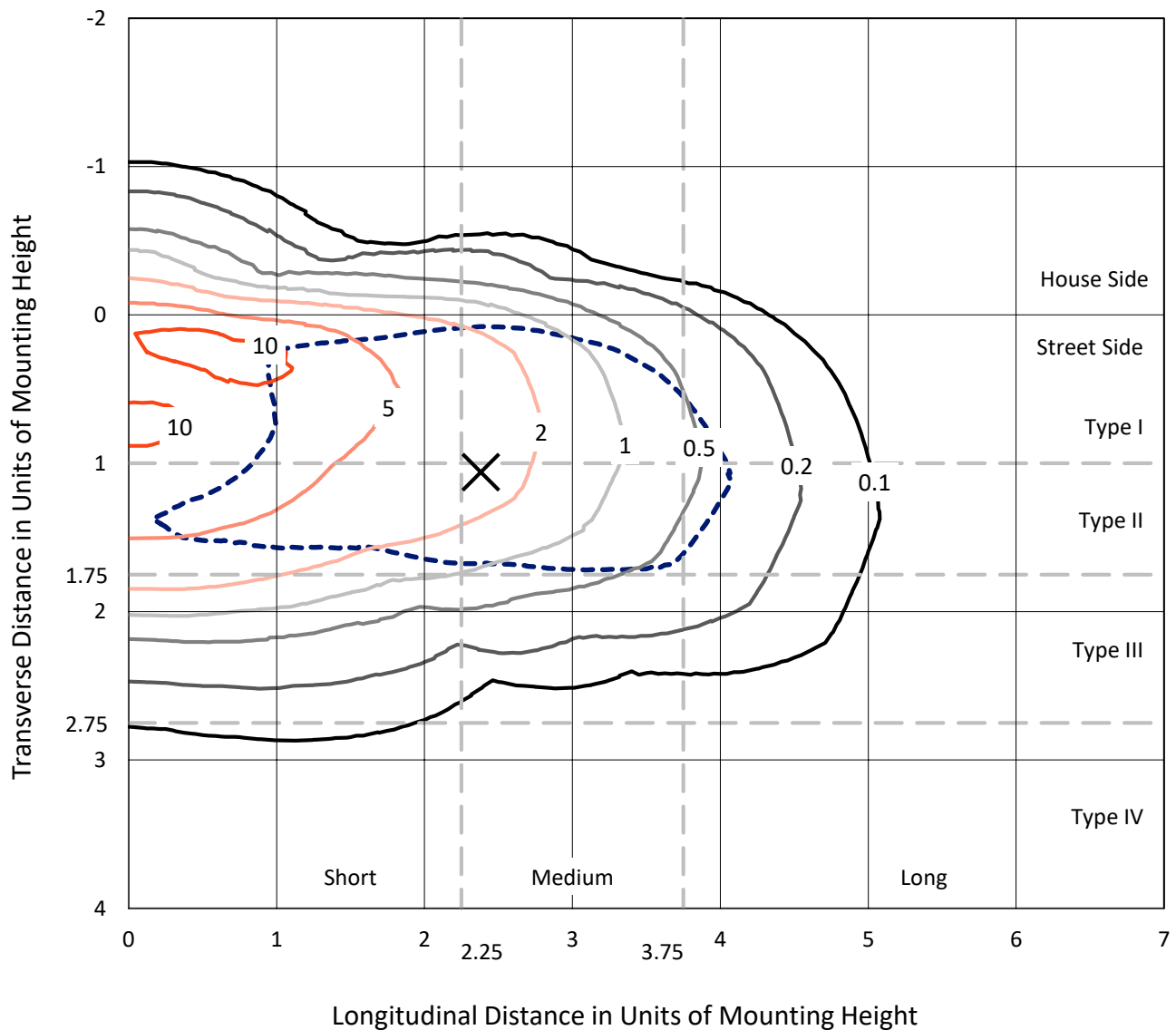


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Iso-Footcandle Lines of Horizontal Illumination

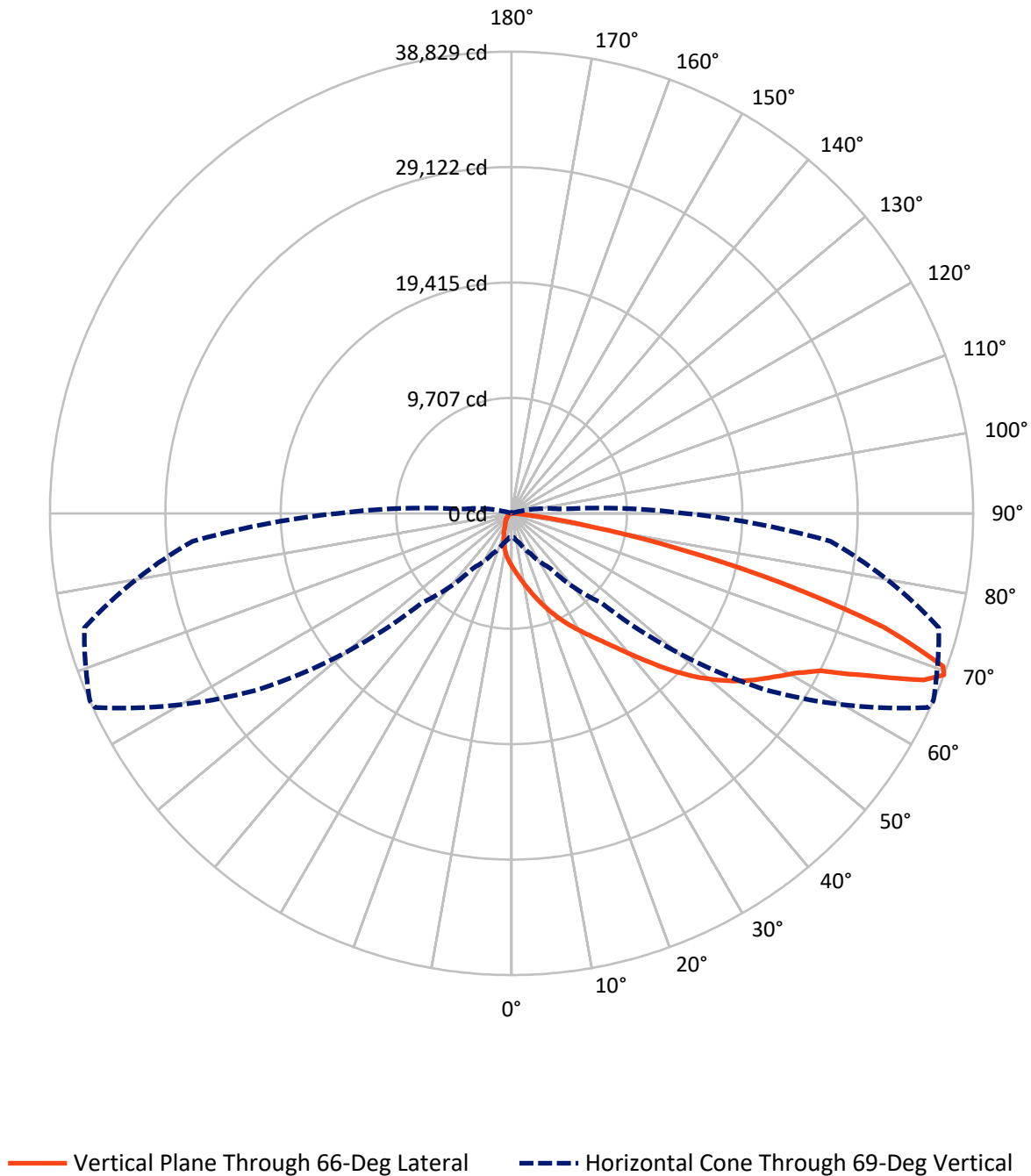
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	2342.0	0.0	2342.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	36700.0	0.0	36700.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	39042.0	0.0	39042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	1.1
10°-20°	1278.2	3.3
20°-30°	2225.9	5.7
30°-40°	3905.3	10.0
40°-50°	6536.8	16.7
50°-60°	9608.5	24.6
60°-70°	9865.5	25.3
70°-80°	4870.3	12.5
80°-90°	322.0	0.8
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°	39042.0	100.0
0°-180°	39042.0	100.0

Coefficient of Utilization



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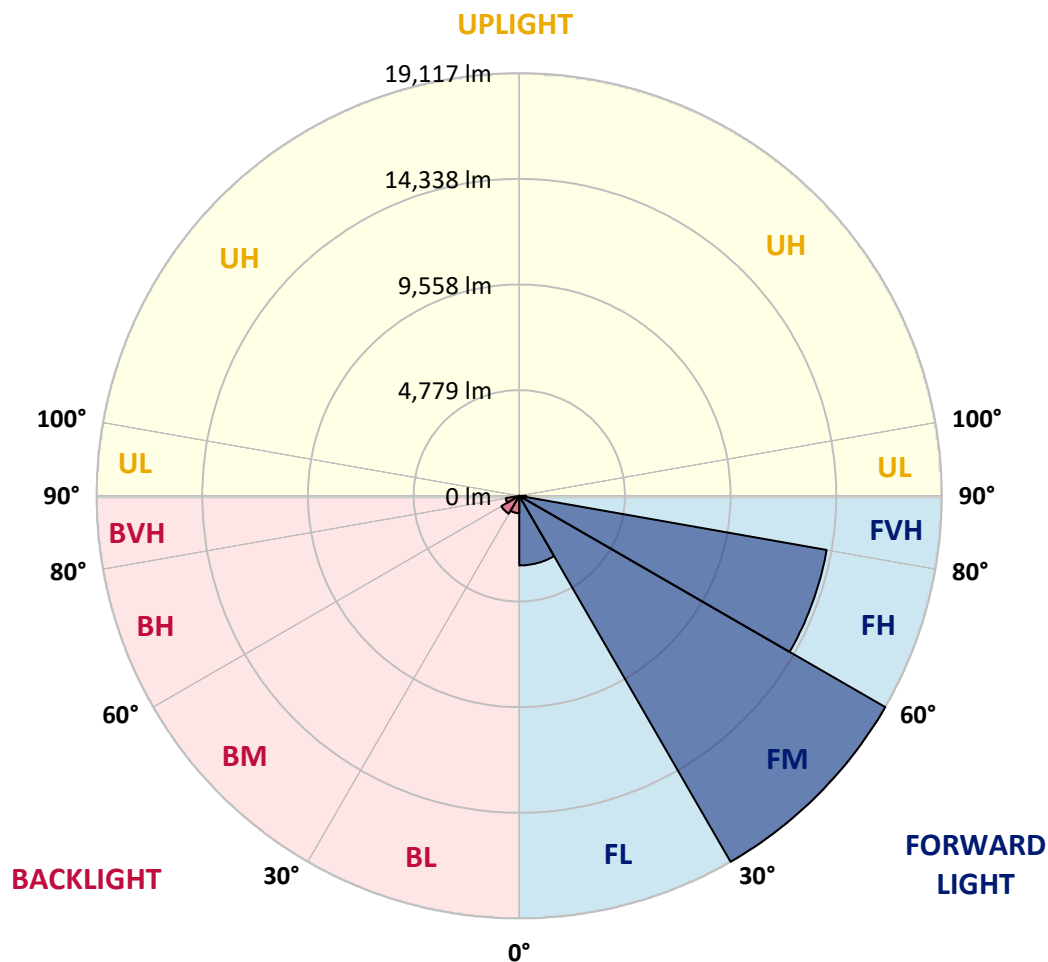
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3150.3	8.1			
FM	(30°-60°)	19116.8	49.0			
FH	(60°-80°)	14118.6	36.2			G5
FVH	(80°-90°)	314.2	0.8			G3/500
BL	(0°-30°)	783.3	2.0	B2/1000		
BM	(30°-60°)	933.8	2.4	B1/1000		
BH	(60°-80°)	617.2	1.6	B2/1000		G2/1000
BVH	(80°-90°)	7.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1
2.5°	5229.4	5207.1	5197.8	5157.0	5086.6	5032.8	4929.0	4808.4	4786.2	4669.3	4526.6
5°	5908.1	5889.5	5876.5	5819.1	5746.7	5611.4	5422.2	5197.8	5155.2	4932.7	4647.1
7.5°	6380.9	6414.3	6414.3	6377.2	6286.4	6184.4	5952.6	5646.6	5592.8	5251.6	4808.4
10°	6657.2	6698.0	6729.6	6761.1	6748.1	6707.3	6488.5	6143.6	6078.7	5626.2	4995.7
12.5°	6683.2	6724.0	6813.0	6944.7	7072.6	7165.3	7028.1	6694.3	6620.2	6060.1	5218.2
15°	6538.6	6581.2	6718.4	6974.3	7284.0	7554.8	7599.3	7304.4	7228.4	6577.5	5496.4
17.5°	6286.4	6314.2	6510.7	6864.9	7350.8	7847.8	8116.6	7959.0	7888.6	7169.0	5806.1
20°	6099.1	6119.5	6291.9	6672.1	7310.0	8031.3	8606.2	8654.4	8580.2	7803.2	6141.7
22.5°	6419.9	6457.0	6462.5	6642.4	7198.7	8122.2	9036.4	9338.7	9283.0	8476.4	6471.8
25°	7297.0	7339.7	7198.7	7087.5	7293.3	8163.0	9405.4	10039.6	9995.1	9201.5	6803.7
27.5°	8456.0	8500.5	8318.8	7986.8	7788.4	8316.9	9733.7	10751.7	10749.9	9969.2	7161.6
30°	9594.6	9639.1	9453.7	9121.7	8665.5	8752.7	10017.4	11497.2	11508.3	10761.0	7541.8
32.5°	10788.8	10844.4	10653.4	10226.9	9750.4	9505.6	10416.1	12246.4	12309.4	11678.9	7970.1
35°	12146.2	12153.6	11884.7	11437.8	10888.9	10512.5	11055.8	13086.4	13236.6	12815.7	8513.5
37.5°	13477.7	13531.4	13310.8	12606.1	12101.7	11675.2	12007.1	14136.0	14349.2	14204.6	9223.7
40°	14464.2	14577.3	14545.8	13785.5	13307.1	13002.9	13188.4	15384.0	15654.7	15821.6	10119.4
42.5°	15083.6	15168.9	15313.5	14855.5	14421.5	14471.6	14582.9	16837.8	17171.6	17664.9	11148.6
45°	15793.8	15834.6	15955.1	15753.0	15460.0	15964.4	16062.7	18475.2	18825.7	19647.2	12290.9
47.5°	16661.6	16758.1	16791.5	16606.0	16472.5	17284.7	17488.7	19964.3	20455.7	21770.5	13499.9
50°	17766.9	17792.8	17850.3	17729.8	17596.3	18419.6	18768.2	21527.5	21974.5	23901.2	14692.3
52.5°	18848.0	18940.7	19141.0	19064.9	19011.1	19385.7	19908.7	22936.9	23435.7	25677.7	15882.8
55°	19159.5	19239.2	19930.9	20403.8	20841.4	20576.2	20999.0	24199.7	24739.3	27265.0	17028.8
57.5°	17915.2	18076.5	19274.5	20505.8	22321.2	22426.9	22497.4	25495.9	25979.9	28481.5	18221.2
60°	14770.2	14801.7	16767.3	18879.5	22076.4	24042.1	24685.6	26888.6	27294.7	29614.5	19649.1
62.5°	9394.3	9715.1	11871.8	14853.6	19487.7	23808.4	27331.8	28995.2	29143.5	30973.8	21696.3
65°	4474.6	4682.3	6236.3	9177.3	14115.6	20817.3	29158.3	32805.9	32872.7	33668.2	24431.5
67.5°	2477.5	2577.6	3317.5	4940.1	8252.0	14722.0	28420.3	37319.5	37382.5	36420.1	26831.1
69°	1937.8	2023.1	2605.4	3723.6	5594.7	10581.1	25718.5	38641.7	38829.0	37208.2	26916.4
70°	1644.8	1728.3	2243.8	3145.0	4498.7	8176.0	22892.4	38313.4	38511.9	37134.0	26280.3
72.5°	1006.9	1055.1	1494.6	2214.1	3015.2	4113.0	14117.4	32401.7	32737.3	34063.2	22586.4
75°	678.7	704.7	934.6	1528.0	2156.6	2117.7	7334.1	22838.6	23565.5	26497.3	16682.0
77.5°	485.8	510.0	626.8	988.4	1511.3	1398.2	3321.2	14193.5	14349.2	15892.1	9097.6
80°	276.3	298.6	443.2	587.8	1025.5	932.8	1320.3	6779.6	6857.5	6814.9	3037.5
82.5°	144.6	163.2	242.9	387.6	658.3	610.1	548.9	2269.8	2280.9	1897.0	665.7
85°	27.8	33.4	120.5	265.2	339.4	265.2	224.4	532.2	543.3	480.3	165.0
87.5°	0.0	1.9	48.2	59.3	66.8	68.6	72.3	103.8	111.3	150.2	44.5
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°	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1	4443.1
2.5°	4463.5	4396.7	4268.8	4120.4	4005.5	3892.4	3803.3	3710.6	3677.2	3660.6	3658.7
5°	4508.0	4367.1	4096.3	3818.2	3590.1	3375.0	3221.1	3074.6	3006.0	2974.4	2961.5
7.5°	4582.2	4355.9	3920.2	3495.5	3167.3	2898.4	2685.1	2525.7	2445.9	2412.6	2399.6
10°	4669.3	4341.1	3714.3	3154.3	2735.2	2457.1	2245.7	2088.0	2000.9	1963.8	1945.2
12.5°	4771.3	4315.2	3477.0	2809.4	2366.2	2088.0	1832.1	1637.4	1537.3	1494.6	1474.2
15°	4897.4	4289.2	3228.5	2484.9	2041.7	1702.3	1422.3	1290.7	1270.3	1262.8	1264.7
17.5°	5021.7	4248.4	2957.7	2164.1	1700.5	1329.6	1186.8	1179.4	1183.1	1183.1	1183.1
20°	5132.9	4155.7	2662.9	1889.6	1376.0	1121.9	1092.2	1079.3	1070.0	1062.6	1053.3
22.5°	5220.1	4031.4	2379.2	1617.0	1123.8	1027.3	981.0	940.2	906.8	884.5	873.4
25°	5279.4	3866.4	2119.6	1355.6	1010.6	934.6	851.2	782.6	730.6	699.1	686.1
27.5°	5323.9	3688.4	1887.8	1134.9	932.8	827.1	717.6	636.1	582.3	554.5	543.3
30°	5355.5	3486.2	1683.8	997.7	845.6	713.9	597.1	517.4	478.4	463.6	456.2
32.5°	5385.1	3261.9	1490.9	932.8	764.0	610.1	500.7	439.5	415.4	396.8	391.3
35°	5459.3	3054.2	1307.3	864.1	680.6	521.1	430.2	385.7	361.6	350.5	346.8
37.5°	5635.5	2900.3	1131.2	793.7	597.1	450.6	376.4	344.9	322.7	311.5	307.8
40°	5919.2	2822.4	982.8	717.6	515.5	396.8	341.2	311.5	287.4	270.7	267.0
42.5°	6336.4	2833.5	879.0	641.6	450.6	354.2	307.8	272.6	246.6	231.8	228.1
45°	6842.7	2915.1	806.7	567.4	396.8	320.8	270.7	233.7	209.5	196.6	192.9
47.5°	7391.6	3046.8	747.3	500.7	354.2	289.3	233.7	194.7	174.3	163.2	161.3
50°	7970.1	3174.7	686.1	435.8	317.1	257.8	196.6	161.3	144.6	135.4	131.7
52.5°	8556.1	3323.1	630.5	376.4	285.6	220.7	163.2	131.7	118.7	111.3	107.6
55°	9186.6	3434.3	576.7	330.1	254.1	187.3	135.4	109.4	98.3	89.0	87.2
57.5°	9928.4	3606.8	521.1	285.6	217.0	155.8	111.3	87.2	77.9	68.6	66.8
60°	10929.7	3808.9	461.7	252.2	178.0	128.0	90.9	70.5	59.3	51.9	50.1
62.5°	12250.1	4033.3	387.6	220.7	144.6	103.8	72.3	55.6	42.7	33.4	33.4
65°	13924.6	4398.6	317.1	185.4	118.7	85.3	55.6	40.8	24.1	14.8	14.8
67.5°	14901.8	4461.6	255.9	152.1	96.4	72.3	46.4	27.8	7.4	1.9	0.0
69°	14588.4	4096.3	217.0	129.8	83.4	68.6	42.7	20.4	3.7	0.0	0.0
70°	13998.7	3745.9	191.0	115.0	76.0	64.9	40.8	14.8	3.7	0.0	0.0
72.5°	11567.6	2666.6	144.6	85.3	55.6	57.5	37.1	9.3	3.7	0.0	0.0
75°	8426.3	1620.7	103.8	59.3	35.2	42.7	26.0	3.7	1.9	0.0	0.0
77.5°	4687.9	764.0	64.9	33.4	22.3	26.0	13.0	0.0	0.0	0.0	0.0
80°	1522.4	207.7	29.7	18.5	13.0	14.8	5.6	0.0	0.0	0.0	0.0
82.5°	281.9	59.3	16.7	9.3	3.7	3.7	0.0	0.0	0.0	0.0	0.0
85°	61.2	24.1	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	7.4	1.9	0.0	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)