

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: P321731

Luminaire Tested: **GAN-SA7C-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28286 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

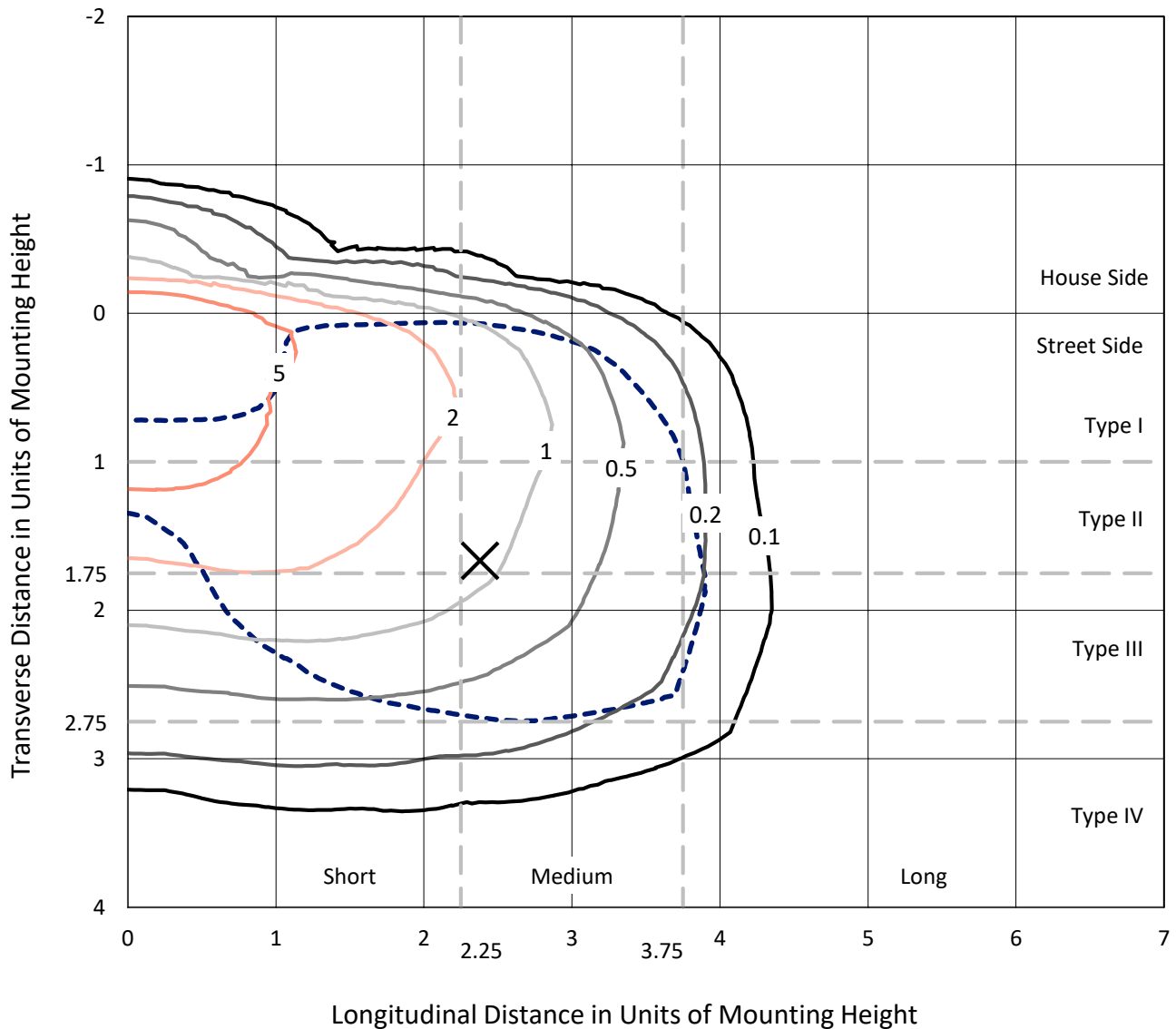
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

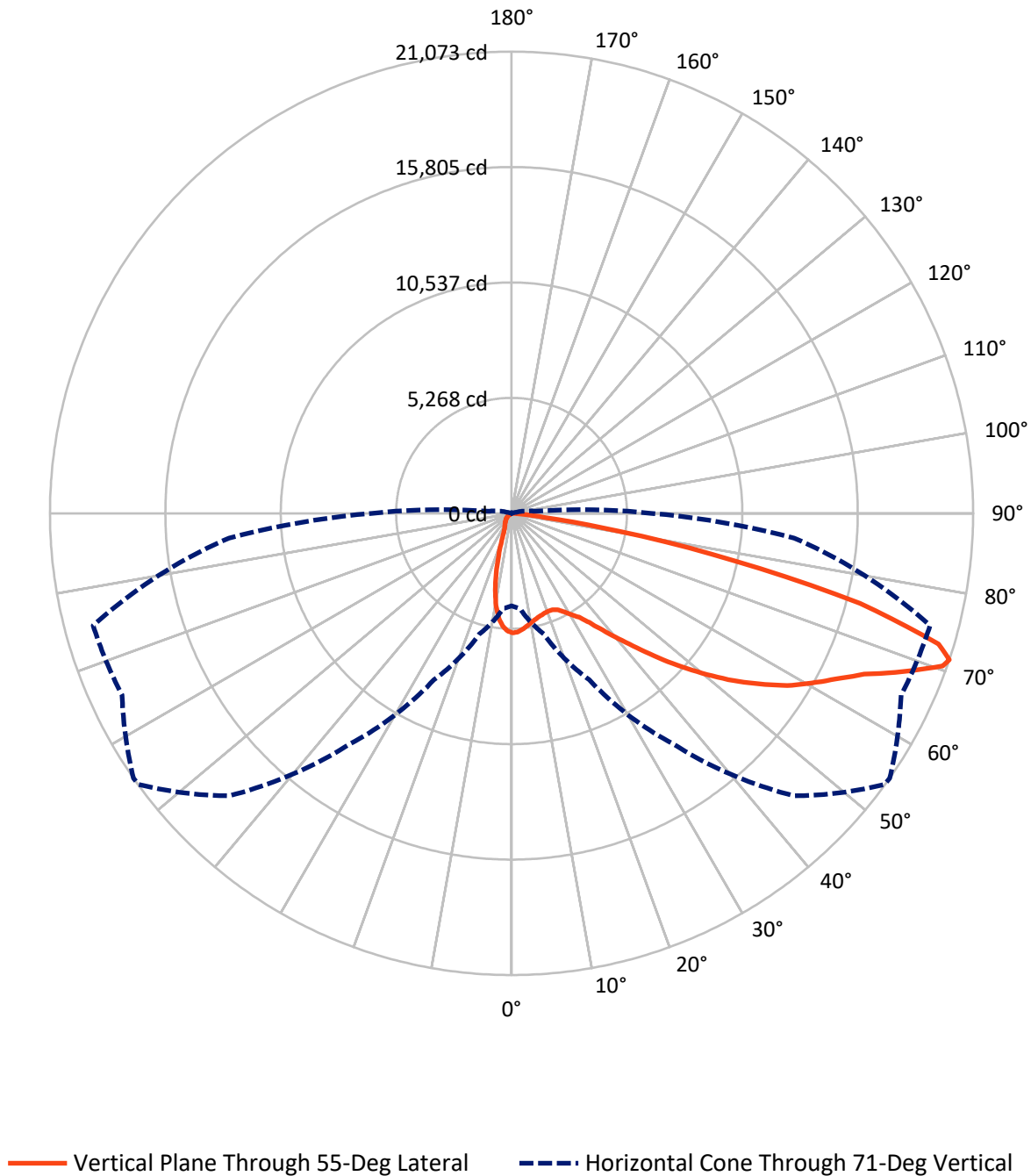
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2239.5	0.0	2239.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	26046.5	0.0	26046.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	28286.0	0.0	28286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.1	1.6
10°-20°	1050.0	3.7
20°-30°	1687.4	6.0
30°-40°	2867.0	10.1
40°-50°	4450.0	15.7
50°-60°	5982.9	21.2
60°-70°	7319.1	25.9
70°-80°	4279.3	15.1
80°-90°	185.0	0.7
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°	28286.0	100.0
0°-180°	28286.0	100.0

Coefficient of Utilization



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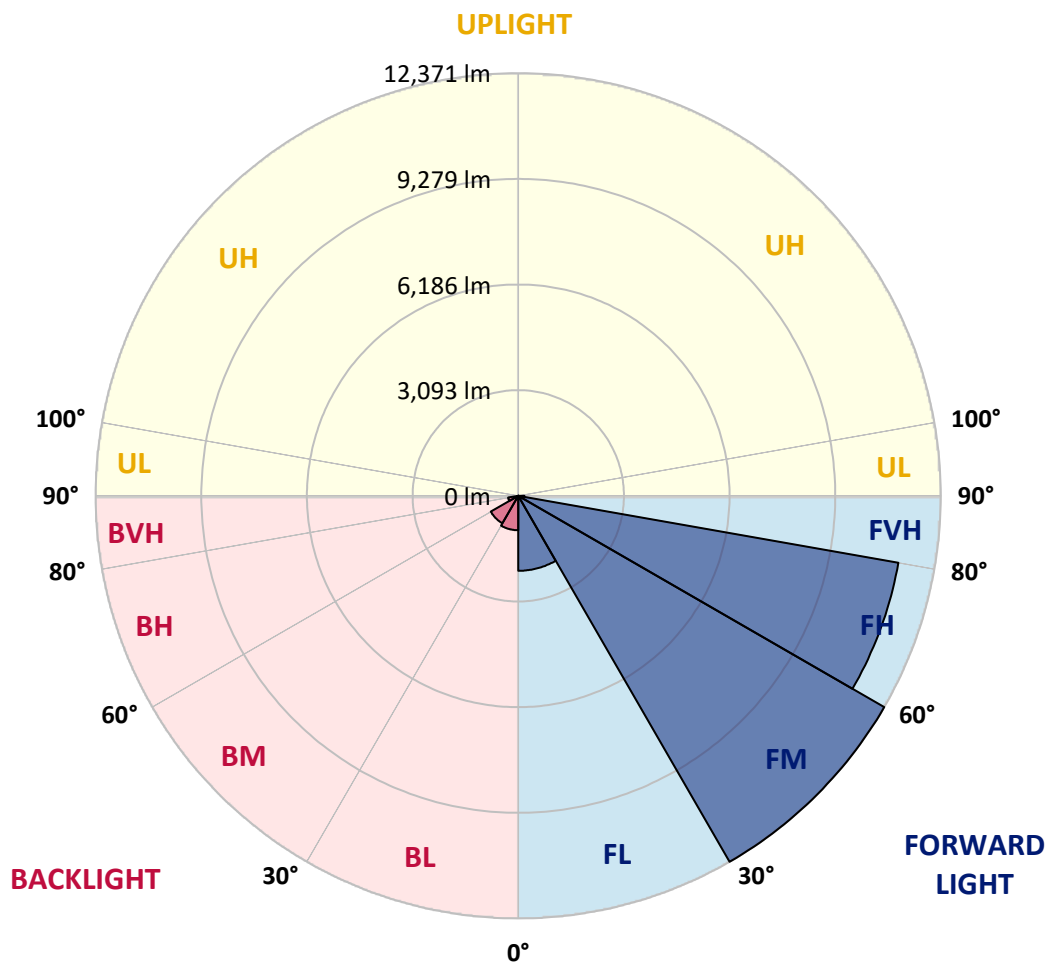
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2194.6	7.8			
FM	(30°-60°)	12371.5	43.7			
FH	(60°-80°)	11298.4	39.9			G4/12000
FVH	(80°-90°)	182.1	0.6			G2/225
BL	(0°-30°)	1008.0	3.6	B3/2500		
BM	(30°-60°)	928.5	3.3	B1/1000		
BH	(60°-80°)	300.0	1.1	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1
2.5°	5295.0	5301.4	5324.2	5334.4	5358.5	5399.2	5419.5	5420.8	5453.8	5466.5	5476.6
5°	4920.3	4958.4	4996.6	5037.2	5110.9	5208.7	5305.2	5314.1	5420.8	5499.5	5541.4
7.5°	4597.7	4632.0	4677.8	4742.5	4846.7	5000.4	5161.7	5180.7	5382.7	5561.7	5655.7
10°	4266.2	4294.2	4360.2	4455.5	4599.0	4804.8	5022.0	5053.7	5348.4	5645.6	5810.7
12.5°	3911.9	3928.4	4008.4	4145.6	4356.4	4618.1	4903.8	4945.7	5326.8	5742.1	5993.6
15°	3642.6	3650.3	3726.5	3868.7	4110.0	4450.4	4812.4	4863.2	5331.9	5857.7	6193.0
17.5°	3574.0	3577.9	3618.5	3716.3	3929.7	4300.5	4740.0	4802.2	5347.1	5970.7	6393.7
20°	3852.2	3825.5	3783.6	3768.4	3859.8	4210.4	4696.8	4766.7	5367.4	6071.1	6574.0
22.5°	4615.5	4536.8	4362.8	4130.3	3989.4	4216.7	4708.2	4778.1	5432.2	6194.3	6782.3
25°	5748.4	5639.2	5343.3	4886.1	4446.6	4399.6	4803.5	4874.6	5557.9	6341.6	6981.7
27.5°	7037.6	6929.6	6567.7	5914.8	5165.5	4761.6	5022.0	5088.0	5744.6	6472.4	7134.1
30°	8272.1	8241.6	7814.9	7073.2	6069.8	5348.4	5303.9	5359.8	5883.1	6551.1	7254.8
32.5°	9318.7	9270.4	8927.5	8206.1	7104.9	6053.3	5635.4	5651.9	5987.2	6652.8	7412.3
35°	10289.0	10229.3	9928.3	9246.3	8166.7	6914.4	6146.0	6121.9	6214.6	6857.2	7640.9
37.5°	11136.2	11190.8	10856.8	10207.8	9119.3	7809.8	6834.4	6762.0	6570.2	7190.0	7972.4
40°	11844.9	11844.9	11670.9	11129.8	10148.1	8735.7	7612.9	7517.7	7104.9	7703.1	8392.8
42.5°	12100.2	12154.8	12219.6	11913.5	11068.9	9698.4	8480.4	8381.4	7858.1	8430.9	8923.7
45°	12115.4	12201.8	12533.3	12532.0	11900.8	10654.8	9458.4	9411.4	8823.3	9365.7	9581.6
47.5°	11900.8	12008.7	12554.9	12864.8	12560.0	11545.2	10527.8	10469.4	9957.5	10511.3	10270.0
50°	11569.3	11688.7	12323.7	12995.6	13008.3	12319.9	11654.4	11566.8	11206.0	11820.8	10981.2
52.5°	10976.2	11207.3	12116.7	13026.1	13303.0	12989.3	12726.3	12688.2	12603.1	13082.0	11547.7
55°	9707.3	9963.9	11597.2	13036.3	13576.0	13582.4	13731.0	13741.2	13912.6	14260.6	11969.4
57.5°	9107.8	9252.6	10690.4	13084.5	13981.2	14255.5	14754.7	14833.4	15098.9	15379.6	12450.7
60°	8730.6	8902.1	10243.3	13018.5	14617.5	15138.3	15703.5	15730.1	16014.6	16534.1	13102.3
62.5°	8429.6	8598.5	9961.4	12764.5	15332.6	16200.1	16630.6	16633.2	16846.5	17909.6	13842.8
65°	7686.6	7828.9	9391.1	12478.7	15805.1	17250.4	17707.7	17691.1	17865.2	19360.1	14702.6
67.5°	6612.1	6721.3	8226.4	11395.3	15627.2	18205.5	19333.4	19278.8	19067.9	20613.6	15040.5
70°	5112.1	5151.5	6483.8	9496.5	13960.9	18572.6	20904.5	20876.5	19805.9	20388.8	13802.1
71°	4225.6	4355.2	5714.2	8381.4	12844.5	18233.5	21056.9	21073.4	19620.4	19776.6	12949.9
72.5°	2453.8	2564.3	4141.8	6436.8	10905.0	16818.6	20266.9	20386.3	18754.2	17988.4	11061.3
75°	525.8	562.7	1535.5	3115.5	5998.7	11787.7	15996.8	16422.3	15285.6	12237.4	6666.7
77.5°	365.8	395.0	657.9	1413.6	1982.6	5824.7	9937.2	10417.3	9132.0	4599.0	2133.8
80°	289.6	322.6	513.1	698.6	536.0	1878.5	4654.9	4948.3	3045.7	1026.2	359.4
82.5°	161.3	191.8	400.1	377.2	205.8	356.9	1303.1	1473.3	609.6	207.0	85.1
85°	47.0	57.2	257.8	274.3	87.6	68.6	222.3	275.6	115.6	54.6	38.1
87.5°	0.0	0.0	124.5	105.4	25.4	10.2	20.3	22.9	22.9	22.9	25.4
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°	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1	5455.1
2.5°	5476.6	5485.5	5453.8	5411.9	5367.4	5312.8	5255.7	5211.2	5209.9	5188.3	5166.7
5°	5544.0	5538.9	5451.2	5317.9	5160.4	4996.6	4840.3	4663.8	4605.4	4533.0	4508.8
7.5°	5668.4	5632.9	5447.4	5155.3	4809.8	4466.9	4112.6	3755.7	3603.3	3466.1	3442.0
10°	5824.7	5757.3	5423.3	4911.5	4277.7	3645.2	3110.5	2625.3	2411.9	2248.1	2240.4
12.5°	5987.2	5884.3	5356.0	4543.1	3580.4	2691.3	2075.3	1597.8	1420.0	1305.7	1315.8
15°	6157.4	6003.7	5211.2	4046.5	2786.6	1826.4	1275.2	994.5	923.4	894.1	901.8
17.5°	6331.4	6086.3	5009.3	3448.3	2002.9	1178.6	882.7	804.0	804.0	810.3	812.9
20°	6482.6	6130.7	4712.1	2777.7	1357.7	858.6	772.2	760.8	767.1	777.3	778.6
22.5°	6632.4	6133.3	4324.7	2098.2	950.0	751.9	735.4	730.3	734.1	745.5	746.8
25°	6754.4	6102.8	3839.5	1492.4	758.2	708.7	701.1	698.6	701.1	715.1	715.1
27.5°	6803.9	5992.3	3247.6	1049.1	679.5	660.4	657.9	660.4	664.3	674.4	675.7
30°	6809.0	5799.3	2602.4	759.5	616.0	595.7	600.8	609.6	605.8	603.3	605.8
32.5°	6821.7	5575.7	1973.7	624.9	562.7	530.9	524.5	524.5	509.3	500.4	495.3
35°	6863.6	5312.8	1431.4	561.4	508.0	471.2	447.1	419.1	389.9	374.7	370.9
37.5°	6929.6	5037.2	1025.0	519.5	459.8	417.9	372.1	322.6	280.7	269.3	269.3
40°	7050.3	4752.7	758.2	486.4	421.7	369.6	301.0	236.2	198.1	191.8	191.8
42.5°	7240.8	4453.0	604.6	457.2	388.6	320.1	229.9	171.5	143.5	139.7	138.4
45°	7438.9	4122.7	528.4	429.3	353.1	262.9	170.2	127.0	110.5	106.7	106.7
47.5°	7637.1	3770.9	491.5	402.6	318.8	204.5	127.0	100.3	92.7	92.7	94.0
50°	7804.7	3403.9	464.9	373.4	274.3	155.0	100.3	85.1	82.6	87.6	88.9
52.5°	7846.6	3043.1	431.8	336.6	219.7	118.1	82.6	74.9	74.9	74.9	74.9
55°	7821.2	2763.7	388.6	290.9	162.6	94.0	71.1	66.0	64.8	64.8	64.8
57.5°	7907.6	2598.6	311.2	226.1	116.8	76.2	62.2	58.4	55.9	54.6	54.6
60°	8081.6	2490.7	222.3	162.6	87.6	63.5	53.3	49.5	45.7	43.2	43.2
62.5°	8312.8	2396.7	165.1	120.7	67.3	50.8	44.5	40.6	35.6	33.0	33.0
65°	8490.6	2229.0	125.7	90.2	50.8	40.6	34.3	33.0	25.4	22.9	21.6
67.5°	8218.8	1860.7	101.6	66.0	38.1	31.8	26.7	25.4	15.2	12.7	12.7
70°	7049.0	1295.5	81.3	48.3	27.9	25.4	21.6	16.5	11.4	10.2	10.2
71°	6392.4	1082.1	73.7	40.6	24.1	24.1	20.3	14.0	10.2	8.9	8.9
72.5°	5310.3	768.4	62.2	31.8	21.6	25.4	21.6	12.7	10.2	8.9	7.6
75°	3082.5	321.3	43.2	21.6	16.5	30.5	27.9	11.4	7.6	6.4	6.4
77.5°	927.2	118.1	24.1	14.0	12.7	26.7	31.8	10.2	3.8	1.3	1.3
80°	168.9	50.8	15.2	8.9	8.9	16.5	24.1	5.1	0.0	0.0	0.0
82.5°	59.7	25.4	8.9	5.1	3.8	7.6	11.4	0.0	0.0	0.0	0.0
85°	34.3	17.8	5.1	2.5	0.0	1.3	2.5	0.0	0.0	0.0	0.0
87.5°	22.9	5.1	0.0	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)