

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: P321531

Luminaire Tested: **GAN-SA7C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321531
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-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 32178 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

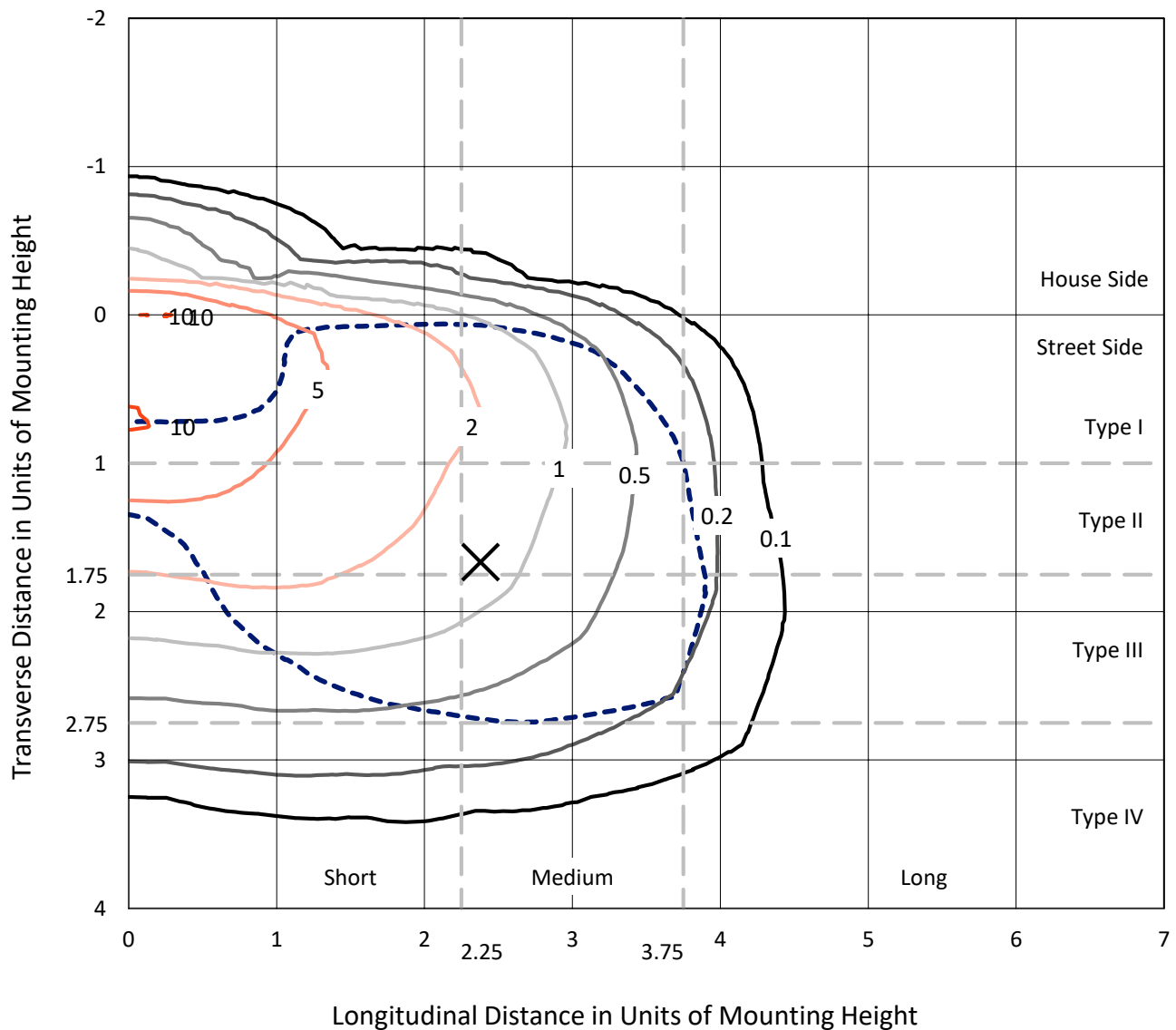
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

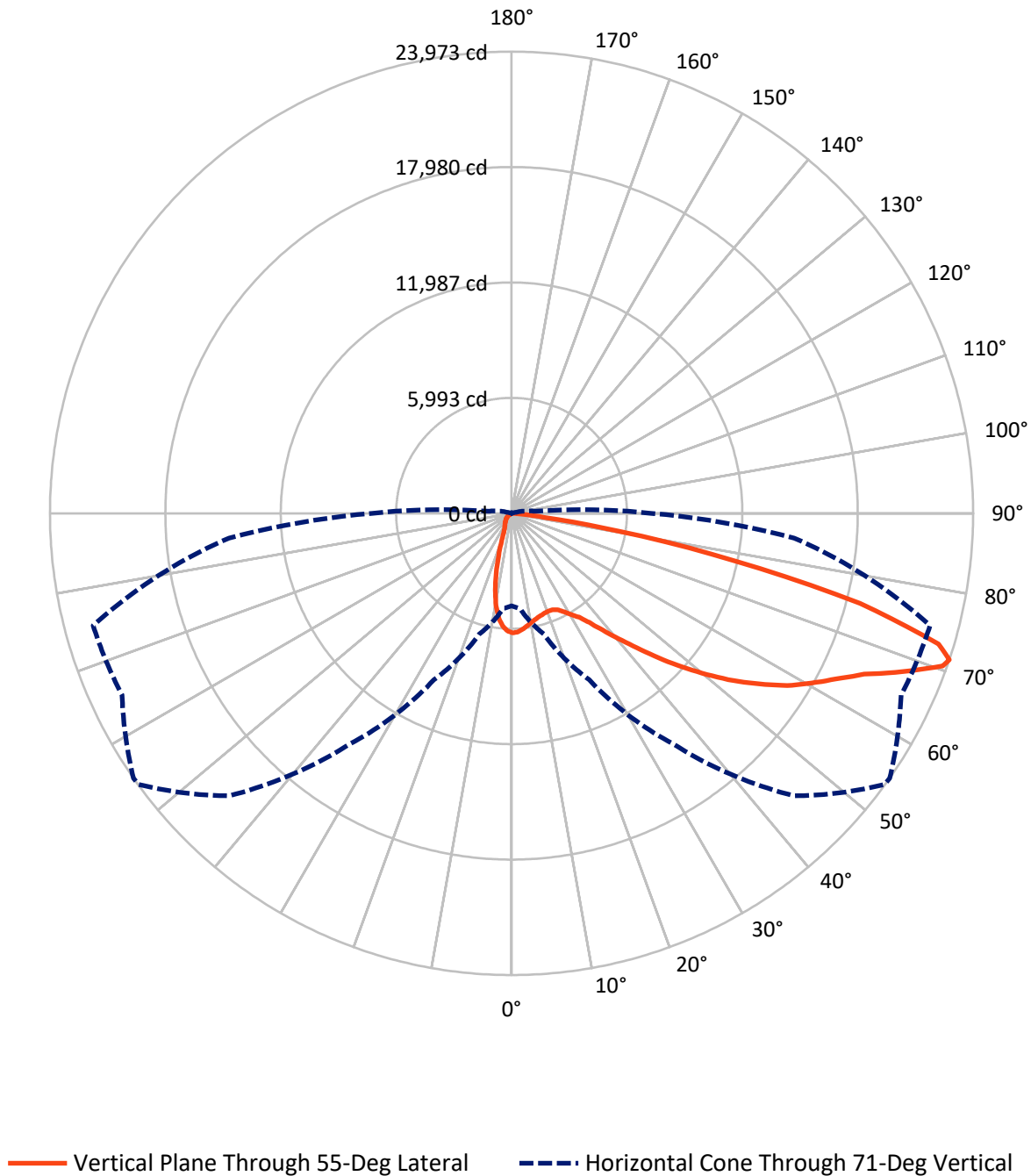
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	2547.6	0.0	2547.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	29630.4	0.0	29630.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	32178.0	0.0	32178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.1	1.6
10°-20°	1194.5	3.7
20°-30°	1919.6	6.0
30°-40°	3261.5	10.1
40°-50°	5062.3	15.7
50°-60°	6806.1	21.2
60°-70°	8326.2	25.9
70°-80°	4868.1	15.1
80°-90°	210.4	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°	32178.0	100.0
0°-180°	32178.0	100.0

Coefficient of Utilization



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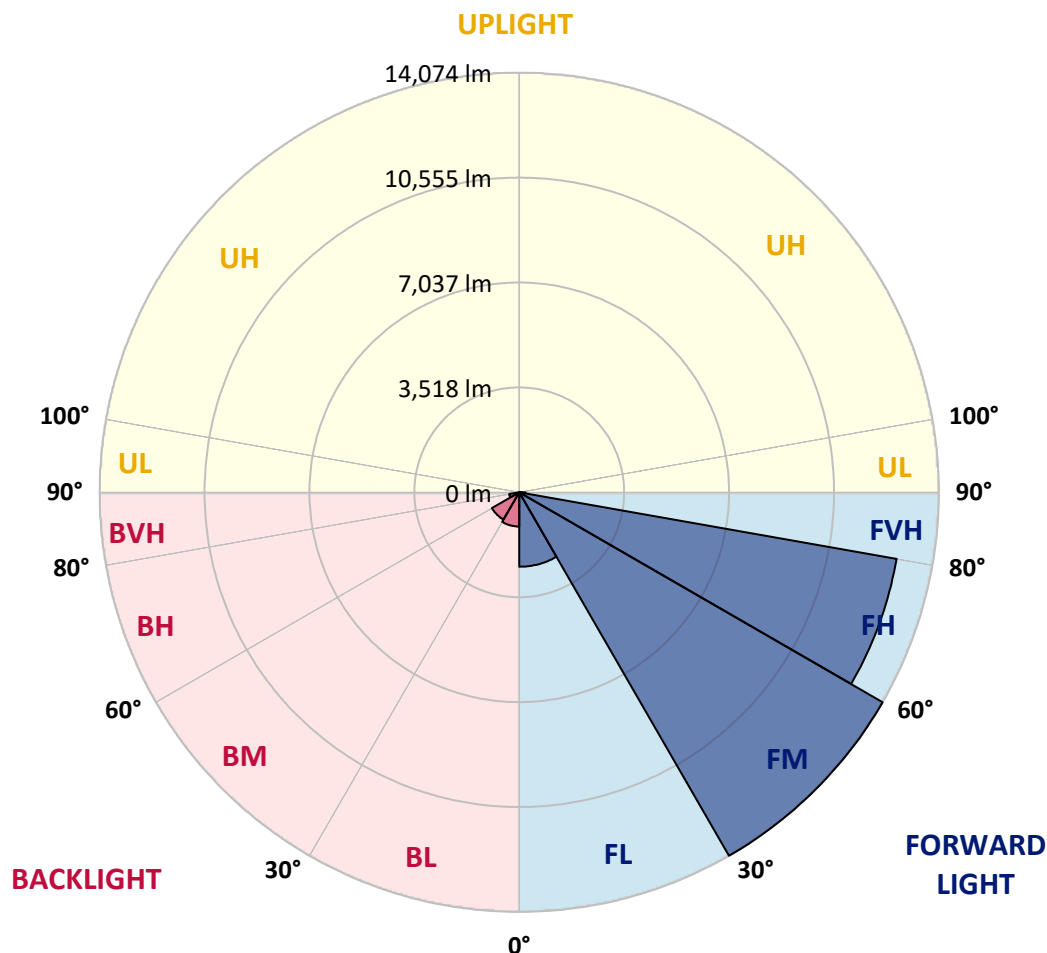
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2496.6	7.8			
FM	(30°-60°)	14073.7	43.7			
FH	(60°-80°)	12853.0	39.9			G5
FVH	(80°-90°)	207.1	0.6			G2/225
BL	(0°-30°)	1146.7	3.6	B3/2500		
BM	(30°-60°)	1056.3	3.3	B2/2500		
BH	(60°-80°)	341.3	1.1	B1/500		G1/500
BVH	(80°-90°)	3.3	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6
2.5°	6023.6	6030.8	6056.8	6068.4	6095.8	6142.1	6165.2	6166.6	6204.2	6218.6	6230.2
5°	5597.4	5640.7	5684.1	5730.3	5814.1	5925.3	6035.2	6045.3	6166.6	6256.2	6303.9
7.5°	5230.4	5269.4	5321.4	5395.1	5513.6	5688.4	5871.9	5893.6	6123.3	6327.0	6433.9
10°	4853.3	4885.0	4960.2	5068.5	5231.8	5465.9	5712.9	5749.1	6084.3	6422.4	6610.2
12.5°	4450.1	4468.9	4560.0	4716.0	4955.8	5253.5	5578.6	5626.3	6059.7	6532.2	6818.3
15°	4143.8	4152.5	4239.2	4401.0	4675.5	5062.8	5474.5	5532.3	6065.5	6663.7	7045.1
17.5°	4065.8	4070.2	4116.4	4227.6	4470.4	4892.3	5392.2	5463.0	6082.8	6792.3	7273.4
20°	4382.2	4351.9	4304.2	4286.9	4390.9	4789.7	5343.1	5422.5	6105.9	6906.4	7478.6
22.5°	5250.6	5161.0	4963.1	4698.7	4538.3	4796.9	5356.1	5435.5	6179.6	7046.5	7715.5
25°	6539.4	6415.1	6078.5	5558.3	5058.4	5005.0	5464.4	5545.3	6322.7	7214.1	7942.4
27.5°	8005.9	7883.1	7471.3	6728.7	5876.2	5416.8	5712.9	5788.1	6535.1	7363.0	8115.7
30°	9410.3	9375.6	8890.2	8046.4	6905.0	6084.3	6033.7	6097.3	6692.6	7452.6	8253.0
32.5°	10600.9	10546.0	10155.9	9335.2	8082.5	6886.2	6410.8	6429.6	6811.0	7568.1	8432.2
35°	11704.8	11636.8	11294.4	10518.5	9290.4	7865.8	6991.6	6964.2	7069.7	7800.8	8692.2
37.5°	12668.5	12730.6	12350.6	11612.3	10374.0	8884.4	7774.8	7692.4	7474.2	8179.3	9069.3
40°	13474.7	13474.7	13276.8	12661.2	11544.4	9937.7	8660.4	8552.1	8082.5	8763.0	9547.6
42.5°	13765.1	13827.2	13900.9	13552.7	12591.9	11032.9	9647.3	9534.6	8939.3	9590.9	10151.5
45°	13782.5	13880.7	14257.8	14256.4	13538.3	12120.9	10759.8	10706.4	10037.4	10654.3	10900.0
47.5°	13538.3	13661.1	14282.4	14634.9	14288.1	13133.7	11976.4	11909.9	11327.6	11957.6	11683.1
50°	13161.2	13297.0	14019.4	14783.7	14798.2	14015.1	13258.0	13158.3	12747.9	13447.2	12492.2
52.5°	12486.4	12749.4	13783.9	14818.4	15133.4	14776.5	14477.4	14434.1	14337.3	14882.0	13136.6
55°	11043.0	11334.9	13193.0	14830.0	15444.0	15451.3	15620.3	15631.9	15826.9	16222.8	13616.3
57.5°	10361.0	10525.8	12161.3	14884.9	15904.9	16217.0	16784.9	16874.4	17176.4	17495.7	14163.9
60°	9931.9	10127.0	11652.7	14809.7	16628.8	17221.2	17864.2	17894.5	18218.1	18809.1	14905.1
62.5°	9589.5	9781.7	11332.0	14520.8	17442.3	18429.1	18918.9	18921.8	19164.5	20373.9	15747.5
65°	8744.2	8906.1	10683.2	14195.7	17979.7	19624.0	20144.1	20125.4	20323.3	22023.9	16725.6
67.5°	7521.9	7646.2	9358.3	12963.2	17777.5	20710.5	21993.5	21931.4	21691.6	23450.0	17109.9
70°	5815.5	5860.3	7376.0	10803.2	15881.8	21128.1	23780.8	23749.0	22531.0	23194.2	15701.2
71°	4807.0	4954.4	6500.4	9534.6	14611.8	20742.3	23954.2	23973.0	22320.1	22497.8	14731.7
72.5°	2791.5	2917.2	4711.7	7322.5	12405.5	19132.7	23055.5	23191.3	21334.7	20463.5	12583.2
75°	598.2	640.1	1746.8	3544.2	6824.0	13409.7	18197.9	18681.9	17388.8	13921.2	7584.0
77.5°	416.1	449.3	748.4	1608.1	2255.4	6626.1	11304.5	11850.7	10388.5	5231.8	2427.4
80°	329.4	367.0	583.7	794.7	609.7	2136.9	5295.4	5629.1	3464.8	1167.4	408.9
82.5°	183.5	218.2	455.1	429.1	234.1	406.0	1482.4	1676.0	693.5	235.5	96.8
85°	53.5	65.0	293.3	312.1	99.7	78.0	252.8	313.5	131.5	62.1	43.3
87.5°	0.0	0.0	141.6	119.9	28.9	11.6	23.1	26.0	26.0	26.0	28.9
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°	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6	6205.6
2.5°	6230.2	6240.3	6204.2	6156.5	6105.9	6043.8	5978.8	5928.2	5926.8	5902.2	5877.7
5°	6306.8	6301.0	6201.3	6049.6	5870.4	5684.1	5506.3	5305.5	5239.0	5156.7	5129.2
7.5°	6448.4	6407.9	6197.0	5864.7	5471.7	5081.5	4678.4	4272.4	4099.0	3943.0	3915.6
10°	6626.1	6549.5	6169.5	5587.2	4866.3	4146.7	3538.4	2986.5	2743.8	2557.4	2548.7
12.5°	6811.0	6694.0	6092.9	5168.2	4073.0	3061.6	2360.9	1817.6	1615.3	1485.3	1496.9
15°	7004.6	6829.8	5928.2	4603.3	3170.0	2077.7	1450.6	1131.3	1050.4	1017.2	1025.8
17.5°	7202.6	6923.7	5698.5	3922.8	2278.5	1340.8	1004.2	914.6	914.6	921.8	924.7
20°	7374.5	6974.3	5360.4	3159.9	1544.5	976.7	878.5	865.5	872.7	884.2	885.7
22.5°	7545.0	6977.2	4919.7	2386.9	1080.7	855.4	836.6	830.8	835.1	848.1	849.6
25°	7683.7	6942.5	4367.8	1697.7	862.6	806.2	797.6	794.7	797.6	813.5	813.5
27.5°	7740.1	6816.8	3694.5	1193.4	773.0	751.3	748.4	751.3	755.7	767.2	768.7
30°	7745.9	6597.2	2960.5	864.0	700.8	677.6	683.4	693.5	689.2	686.3	689.2
32.5°	7760.3	6342.9	2245.3	710.9	640.1	603.9	596.7	596.7	579.4	569.3	563.5
35°	7808.0	6043.8	1628.3	638.6	577.9	536.0	508.6	476.8	443.6	426.2	421.9
37.5°	7883.1	5730.3	1166.0	590.9	523.0	475.4	423.3	367.0	319.3	306.3	306.3
40°	8020.4	5406.6	862.6	553.4	479.7	420.5	342.4	268.7	225.4	218.2	218.2
42.5°	8237.1	5065.7	687.7	520.1	442.1	364.1	261.5	195.1	163.3	158.9	157.5
45°	8462.5	4690.0	601.1	488.4	401.7	299.1	193.6	144.5	125.7	121.4	121.4
47.5°	8687.9	4289.8	559.2	458.0	362.7	232.6	144.5	114.1	105.5	105.5	106.9
50°	8878.6	3872.2	528.8	424.8	312.1	176.3	114.1	96.8	93.9	99.7	101.1
52.5°	8926.3	3461.9	491.2	382.9	250.0	134.4	93.9	85.2	85.2	85.2	85.2
55°	8897.4	3144.0	442.1	330.9	184.9	106.9	80.9	75.1	73.7	73.7	73.7
57.5°	8995.7	2956.2	354.0	257.2	132.9	86.7	70.8	66.5	63.6	62.1	62.1
60°	9193.6	2833.4	252.8	184.9	99.7	72.2	60.7	56.3	52.0	49.1	49.1
62.5°	9456.6	2726.4	187.8	137.3	76.6	57.8	50.6	46.2	40.5	37.6	37.6
65°	9658.8	2535.7	143.0	102.6	57.8	46.2	39.0	37.6	28.9	26.0	24.6
67.5°	9349.6	2116.7	115.6	75.1	43.3	36.1	30.3	28.9	17.3	14.4	14.4
70°	8018.9	1473.7	92.5	54.9	31.8	28.9	24.6	18.8	13.0	11.6	11.6
71°	7271.9	1231.0	83.8	46.2	27.5	27.5	23.1	15.9	11.6	10.1	10.1
72.5°	6040.9	874.1	70.8	36.1	24.6	28.9	24.6	14.4	11.6	10.1	8.7
75°	3506.7	365.5	49.1	24.6	18.8	34.7	31.8	13.0	8.7	7.2	7.2
77.5°	1054.7	134.4	27.5	15.9	14.4	30.3	36.1	11.6	4.3	1.4	1.4
80°	192.2	57.8	17.3	10.1	10.1	18.8	27.5	5.8	0.0	0.0	0.0
82.5°	67.9	28.9	10.1	5.8	4.3	8.7	13.0	0.0	0.0	0.0	0.0
85°	39.0	20.2	5.8	2.9	0.0	1.4	2.9	0.0	0.0	0.0	0.0
87.5°	26.0	5.8	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)