

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: P321723

Luminaire Tested: **GAN-SA9B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321723
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-SA9B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 28885 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

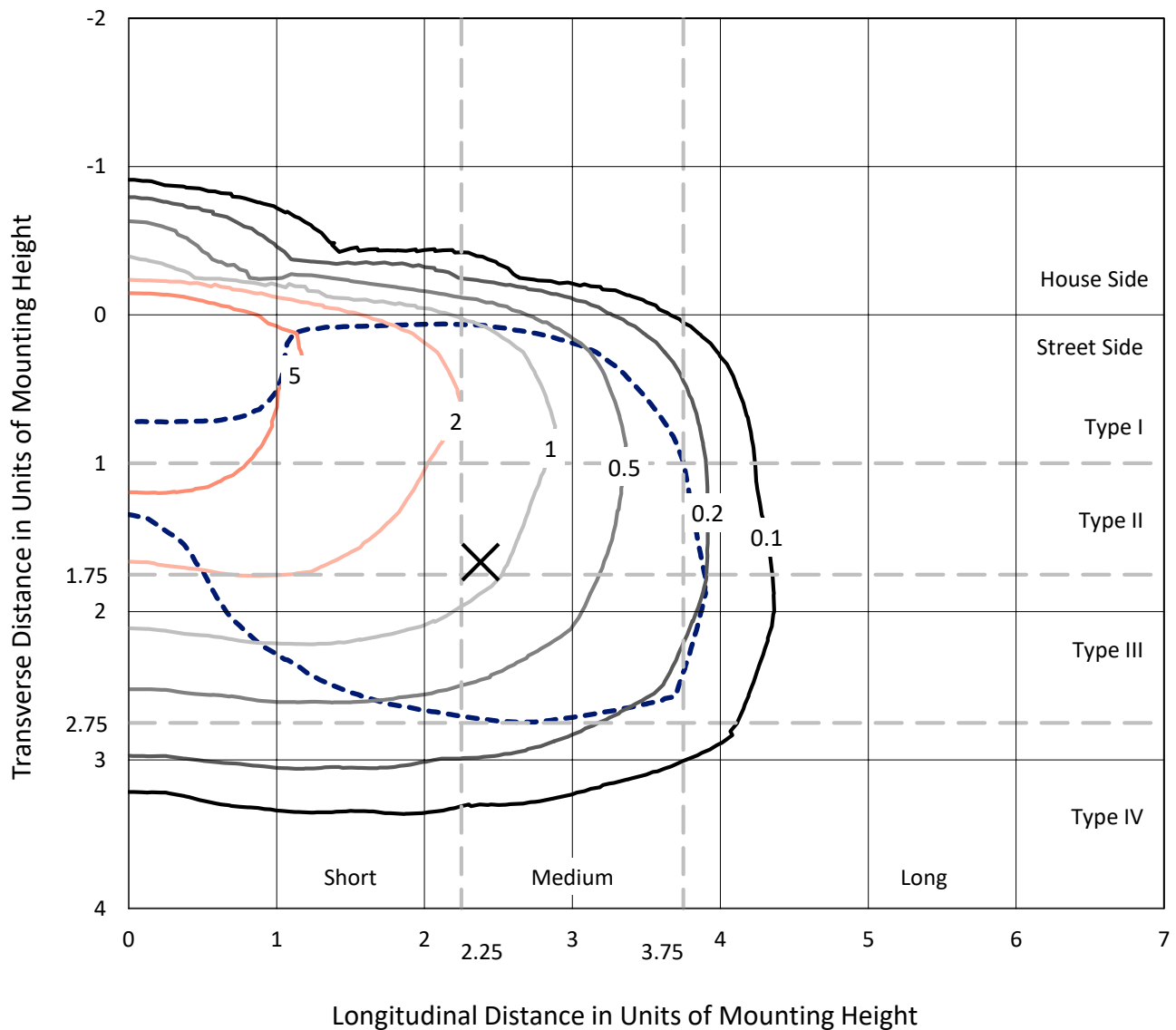
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

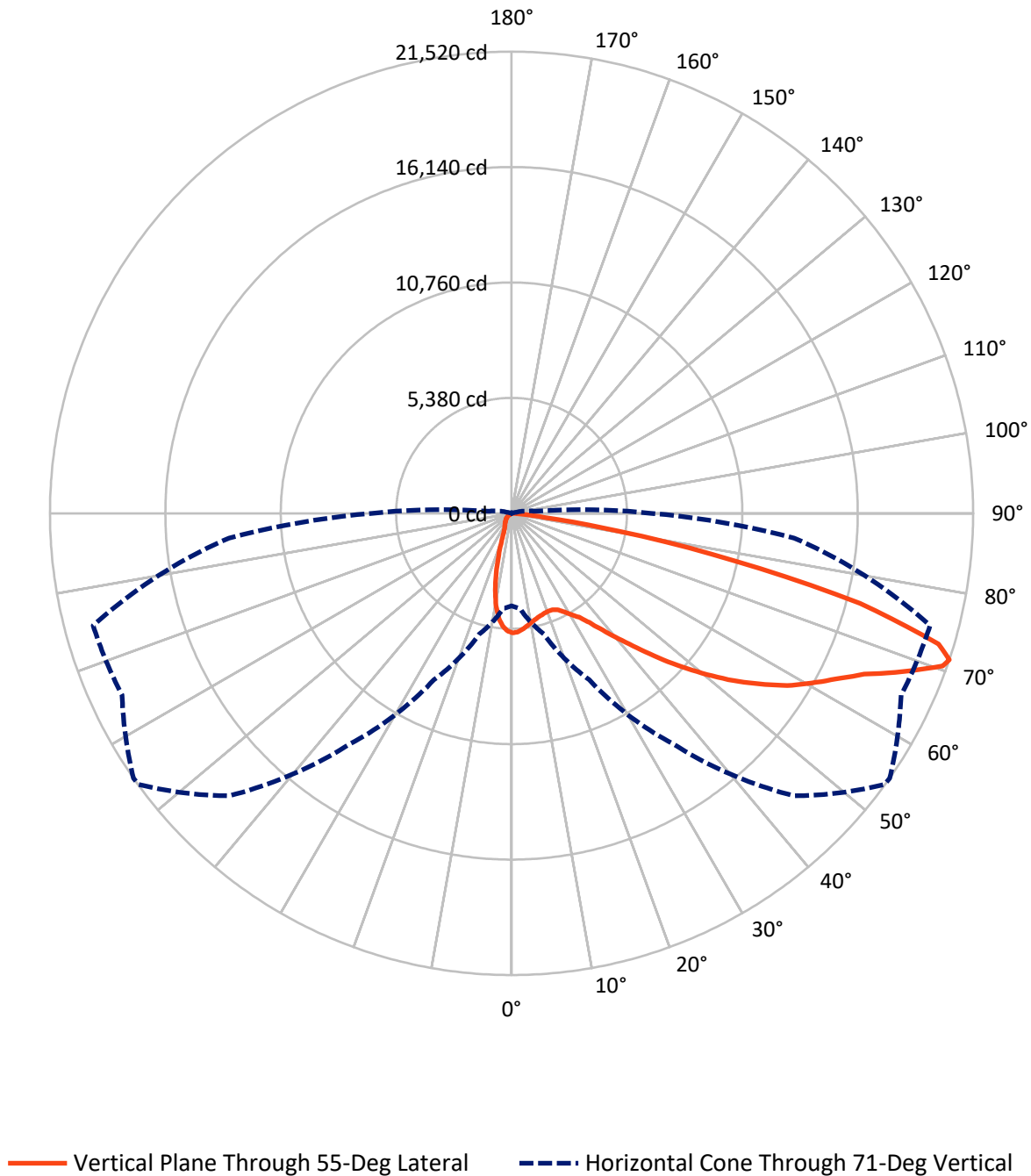
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	2286.9	0.0	2286.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	26598.1	0.0	26598.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	28885.0	0.0	28885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	1.6
10°-20°	1072.3	3.7
20°-30°	1723.2	6.0
30°-40°	2927.8	10.1
40°-50°	4544.3	15.7
50°-60°	6109.6	21.2
60°-70°	7474.1	25.9
70°-80°	4369.9	15.1
80°-90°	188.9	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°	28885.0	100.0
0°-180°	28885.0	100.0

Coefficient of Utilization



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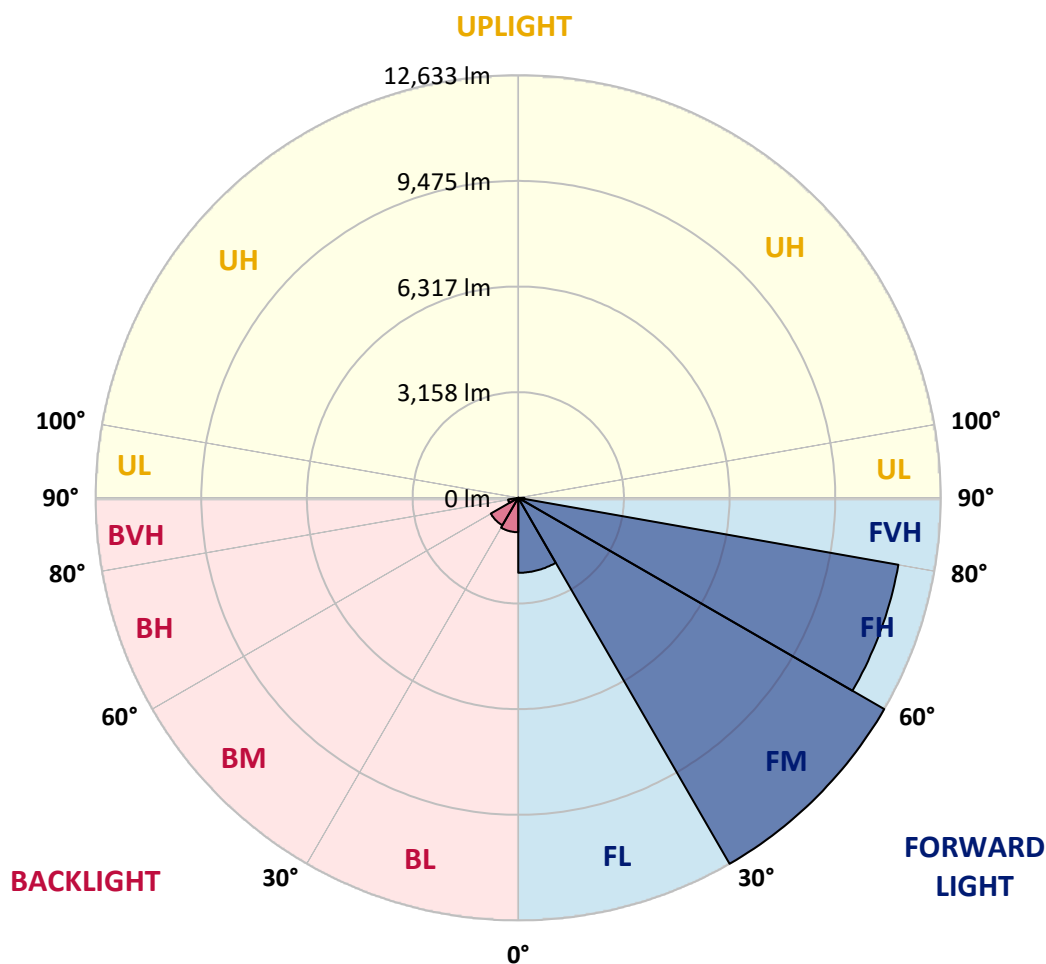
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2241.1	7.8			
FM	(30°-60°)	12633.5	43.7			
FH	(60°-80°)	11537.6	39.9			G4/12000
FVH	(80°-90°)	185.9	0.6			G2/225
BL	(0°-30°)	1029.3	3.6	B3/2500		
BM	(30°-60°)	948.2	3.3	B1/1000		
BH	(60°-80°)	306.4	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6
2.5°	5407.2	5413.6	5437.0	5447.4	5472.0	5513.5	5534.3	5535.6	5569.3	5582.2	5592.6
5°	5024.5	5063.5	5102.4	5143.9	5219.1	5319.0	5417.5	5426.6	5535.6	5616.0	5658.8
7.5°	4695.1	4730.1	4776.8	4843.0	4949.3	5106.3	5271.0	5290.4	5496.6	5679.5	5775.5
10°	4356.6	4385.1	4452.6	4549.8	4696.4	4906.5	5128.3	5160.7	5461.6	5765.1	5933.7
12.5°	3994.7	4011.6	4093.3	4233.4	4448.7	4715.9	5007.7	5050.5	5439.6	5863.7	6120.5
15°	3719.8	3727.6	3805.4	3950.6	4197.1	4544.7	4914.3	4966.2	5444.8	5981.7	6324.1
17.5°	3649.7	3653.6	3695.1	3795.0	4012.9	4391.6	4840.4	4903.9	5460.3	6097.2	6529.1
20°	3933.8	3906.5	3863.7	3848.2	3941.6	4299.5	4796.3	4867.6	5481.1	6199.6	6713.2
22.5°	4713.3	4632.9	4455.2	4217.8	4073.8	4306.0	4807.9	4879.3	5547.2	6325.4	6925.9
25°	5870.2	5758.6	5456.4	4989.5	4540.8	4492.8	4905.2	4977.9	5675.6	6475.9	7129.6
27.5°	7186.6	7076.4	6706.7	6040.1	5274.9	4862.4	5128.3	5195.7	5866.3	6609.5	7285.2
30°	8447.3	8416.2	7980.4	7222.9	6198.3	5461.6	5416.2	5473.3	6007.7	6689.9	7408.4
32.5°	9516.0	9466.7	9116.5	8379.9	7255.4	6181.5	5754.7	5771.6	6114.0	6793.6	7569.2
35°	10506.9	10446.0	10138.6	9442.1	8339.7	7060.8	6276.1	6251.5	6346.2	7002.5	7802.7
37.5°	11372.0	11427.8	11086.7	10423.9	9312.4	7975.2	6979.1	6905.2	6709.3	7342.3	8141.2
40°	12095.7	12095.7	11918.0	11365.5	10363.0	8920.7	7774.2	7676.9	7255.4	7866.2	8570.5
42.5°	12356.4	12412.2	12478.3	12165.8	11303.3	9903.8	8660.0	8558.8	8024.5	8609.4	9112.7
45°	12372.0	12460.2	12798.7	12797.4	12152.8	10880.5	9658.7	9610.7	9010.2	9564.0	9784.5
47.5°	12152.8	12263.0	12820.8	13137.2	12825.9	11789.6	10750.8	10691.1	10168.4	10733.9	10487.5
50°	11814.3	11936.2	12584.7	13270.8	13283.8	12580.8	11901.2	11811.7	11443.4	12071.1	11213.8
52.5°	11208.6	11444.6	12373.3	13301.9	13584.7	13264.3	12995.8	12956.9	12870.0	13359.0	11792.2
55°	9912.9	10174.9	11842.8	13312.3	13863.5	13870.0	14021.8	14032.1	14207.2	14562.6	12222.8
57.5°	9300.7	9448.6	10916.8	13361.6	14277.3	14557.4	15067.1	15147.6	15418.6	15705.3	12714.4
60°	8915.5	9090.6	10460.2	13294.2	14927.1	15458.8	16036.0	16063.2	16353.8	16884.2	13379.8
62.5°	8608.1	8780.6	10172.3	13034.8	15657.3	16543.1	16982.8	16985.4	17203.3	18288.9	14135.9
65°	7849.4	7994.7	9590.0	12742.9	16139.8	17615.7	18082.6	18065.8	18243.5	19770.0	15014.0
67.5°	6752.1	6863.7	8400.6	11636.6	15958.2	18591.1	19742.8	19687.0	19471.7	21050.2	15359.0
70°	5220.4	5260.6	6621.1	9697.6	14256.5	18965.9	21347.2	21318.6	20225.3	20820.6	14094.4
71°	4315.1	4447.4	5835.2	8558.8	13116.5	18619.6	21502.8	21519.7	20035.9	20195.4	13224.1
72.5°	2505.8	2618.6	4229.5	6573.1	11136.0	17174.8	20696.1	20818.0	19151.4	18369.3	11295.5
75°	537.0	574.6	1568.1	3181.5	6125.7	12037.4	16335.6	16770.1	15609.3	12496.5	6807.9
77.5°	373.5	403.4	671.8	1443.6	2024.6	5948.0	10147.7	10637.9	9325.4	4696.4	2178.9
80°	295.7	329.4	524.0	713.3	547.3	1918.2	4753.5	5053.1	3110.2	1048.0	367.0
82.5°	164.7	195.8	408.6	385.2	210.1	364.5	1330.7	1504.5	622.6	211.4	86.9
85°	48.0	58.4	263.3	280.2	89.5	70.0	227.0	281.4	118.0	55.8	38.9
87.5°	0.0	0.0	127.1	107.7	25.9	10.4	20.8	23.3	23.3	23.3	25.9
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°	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6	5570.6
2.5°	5592.6	5601.7	5569.3	5526.5	5481.1	5425.3	5366.9	5321.6	5320.3	5298.2	5276.2
5°	5661.4	5656.2	5566.7	5430.5	5269.7	5102.4	4942.8	4762.6	4702.9	4629.0	4604.3
7.5°	5788.5	5752.2	5562.8	5264.5	4911.7	4561.5	4199.7	3835.2	3679.6	3539.5	3514.8
10°	5948.0	5879.3	5538.2	5015.5	4368.3	3722.4	3176.3	2680.9	2463.0	2295.7	2287.9
12.5°	6114.0	6009.0	5469.4	4639.3	3656.2	2748.3	2119.3	1631.6	1450.0	1333.3	1343.7
15°	6287.8	6130.9	5321.6	4132.2	2845.6	1865.1	1302.2	1015.5	942.9	913.1	920.9
17.5°	6465.5	6215.2	5115.3	3521.3	2045.4	1203.6	901.4	821.0	821.0	827.5	830.1
20°	6619.8	6260.6	4811.8	2836.5	1386.5	876.8	788.6	776.9	783.4	793.8	795.1
22.5°	6772.9	6263.2	4416.3	2142.6	970.1	767.8	751.0	745.8	749.7	761.3	762.6
25°	6897.4	6232.0	3920.8	1524.0	774.3	723.7	715.9	713.3	715.9	730.2	730.2
27.5°	6948.0	6119.2	3316.4	1071.3	693.9	674.4	671.8	674.4	678.3	688.7	690.0
30°	6953.2	5922.1	2657.5	775.6	629.0	608.3	613.5	622.6	618.7	616.1	618.7
32.5°	6966.1	5693.8	2015.5	638.1	574.6	542.1	535.7	535.7	520.1	511.0	505.8
35°	7008.9	5425.3	1461.7	573.3	518.8	481.2	456.5	428.0	398.2	382.6	378.7
37.5°	7076.4	5143.9	1046.7	530.5	469.5	426.7	380.0	329.4	286.6	275.0	275.0
40°	7199.6	4853.3	774.3	496.7	430.6	377.4	307.4	241.2	202.3	195.8	195.8
42.5°	7394.1	4547.3	617.4	466.9	396.9	326.8	234.8	175.1	146.6	142.7	141.4
45°	7596.5	4210.0	539.5	438.4	360.6	268.5	173.8	129.7	112.8	108.9	108.9
47.5°	7798.8	3850.8	501.9	411.1	325.5	208.8	129.7	102.5	94.7	94.7	96.0
50°	7970.0	3475.9	474.7	381.3	280.2	158.2	102.5	86.9	84.3	89.5	90.8
52.5°	8012.8	3107.6	441.0	343.7	224.4	120.6	84.3	76.5	76.5	76.5	76.5
55°	7986.9	2822.3	396.9	297.0	166.0	96.0	72.6	67.4	66.1	66.1	66.1
57.5°	8075.1	2653.6	317.8	230.9	119.3	77.8	63.6	59.7	57.1	55.8	55.8
60°	8252.8	2543.4	227.0	166.0	89.5	64.8	54.5	50.6	46.7	44.1	44.1
62.5°	8488.8	2447.4	168.6	123.2	68.7	51.9	45.4	41.5	36.3	33.7	33.7
65°	8670.4	2276.2	128.4	92.1	51.9	41.5	35.0	33.7	25.9	23.3	22.0
67.5°	8392.8	1900.1	103.8	67.4	38.9	32.4	27.2	25.9	15.6	13.0	13.0
70°	7198.3	1322.9	83.0	49.3	28.5	25.9	22.0	16.9	11.7	10.4	10.4
71°	6527.8	1105.0	75.2	41.5	24.6	24.6	20.8	14.3	10.4	9.1	9.1
72.5°	5422.7	784.7	63.6	32.4	22.0	25.9	22.0	13.0	10.4	9.1	7.8
75°	3147.8	328.1	44.1	22.0	16.9	31.1	28.5	11.7	7.8	6.5	6.5
77.5°	946.8	120.6	24.6	14.3	13.0	27.2	32.4	10.4	3.9	1.3	1.3
80°	172.5	51.9	15.6	9.1	9.1	16.9	24.6	5.2	0.0	0.0	0.0
82.5°	61.0	25.9	9.1	5.2	3.9	7.8	11.7	0.0	0.0	0.0	0.0
85°	35.0	18.2	5.2	2.6	0.0	1.3	2.6	0.0	0.0	0.0	0.0
87.5°	23.3	5.2	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)