

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: P322813

Luminaire Tested: **GAN-SA9C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38327 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

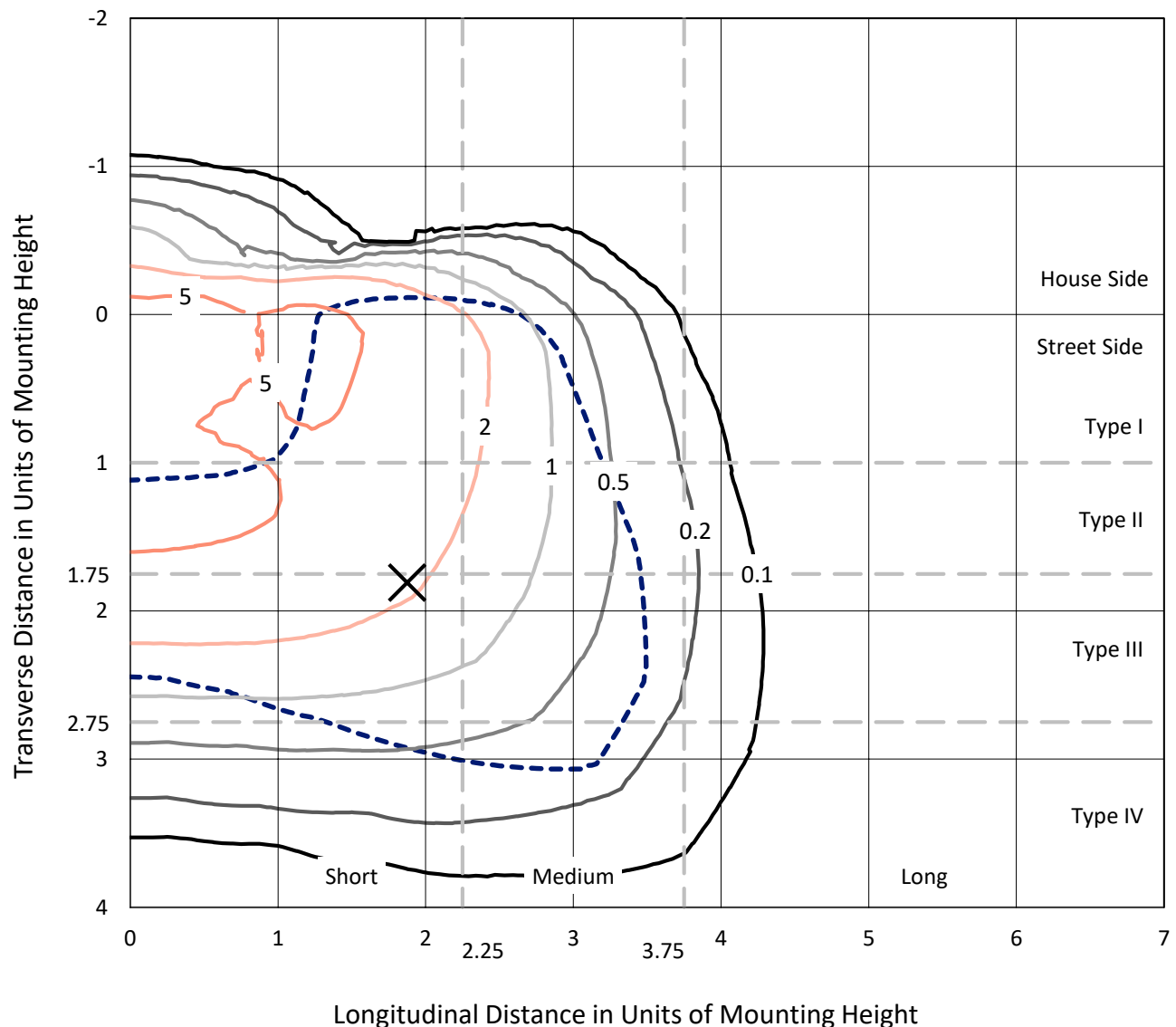
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

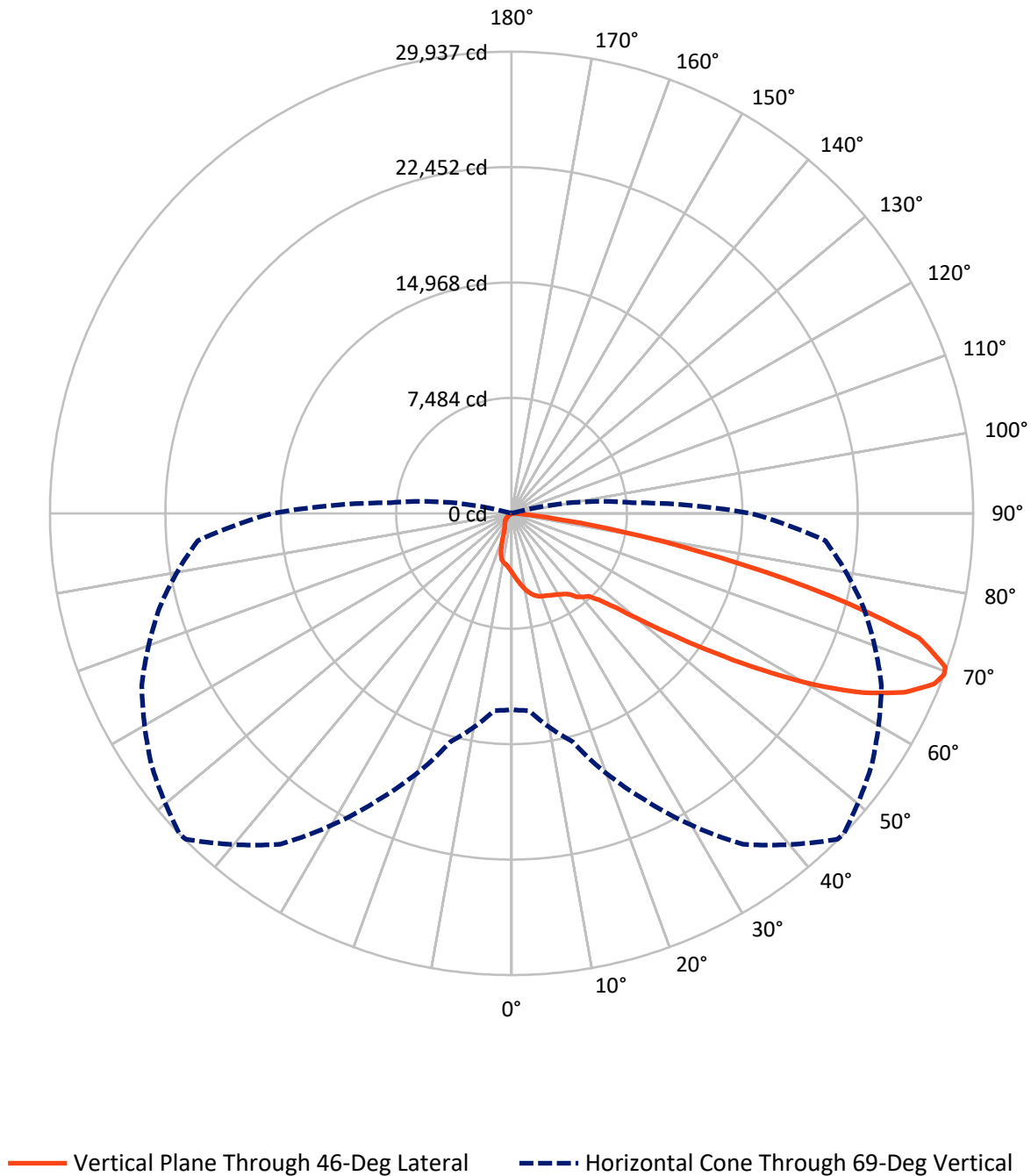
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3933.4	0.0	3933.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	34393.6	0.0	34393.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	38327.0	0.0	38327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	1.0
10°-20°	1159.6	3.0
20°-30°	1823.7	4.8
30°-40°	2615.2	6.8
40°-50°	4520.0	11.8
50°-60°	8929.6	23.3
60°-70°	12480.0	32.6
70°-80°	6029.2	15.7
80°-90°	387.5	1.0
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°	38327.0	100.0
0°-180°	38327.0	100.0

Coefficient of Utilization



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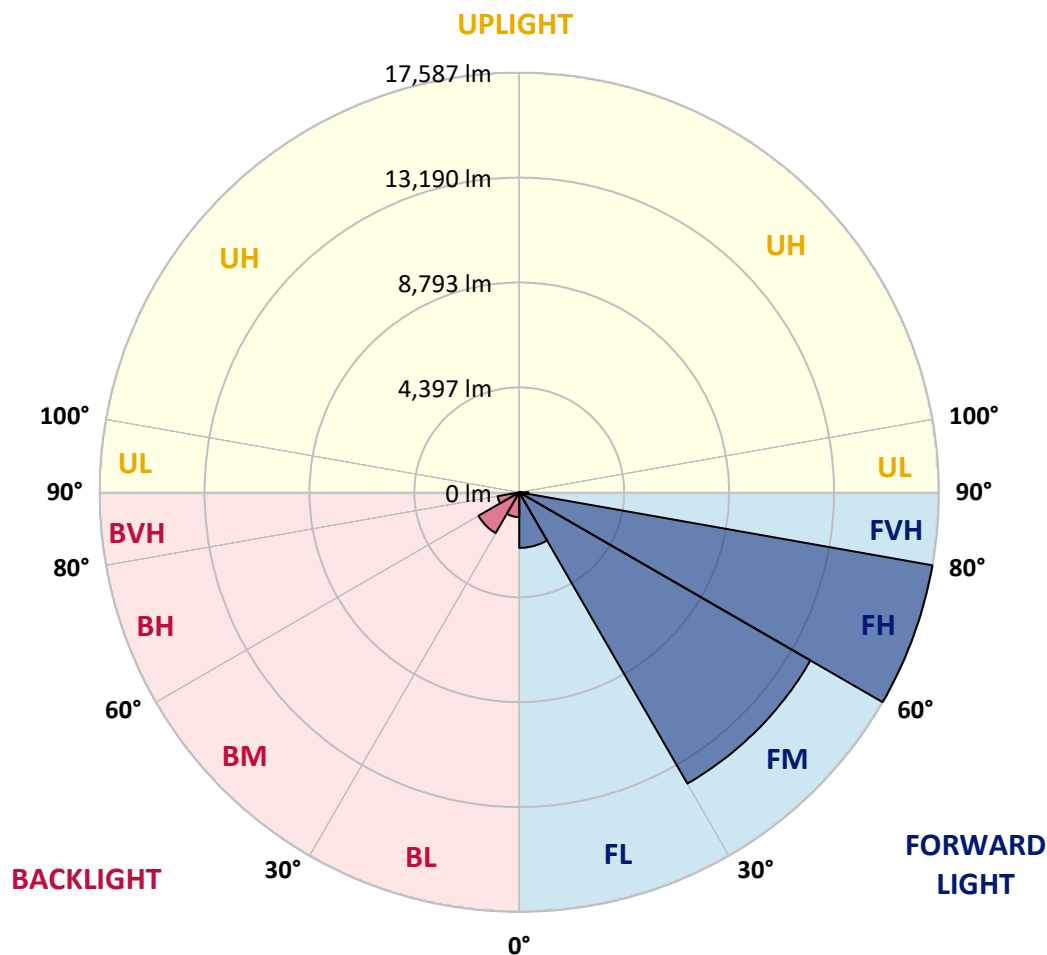
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2328.8	6.1			
FM	(30°-60°)	14093.7	36.8			
FH	(60°-80°)	17586.8	45.9			G5
FVH	(80°-90°)	384.3	1.0			G3/500
BL	(0°-30°)	1036.7	2.7	B3/2500		
BM	(30°-60°)	1971.1	5.1	B2/2500		
BH	(60°-80°)	922.3	2.4	B2/1000		G2/1000
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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2
2.5°	4266.1	4260.7	4235.6	4224.8	4163.7	4127.7	4113.4	4068.4	4003.8	3939.1	3867.2
5°	4751.3	4749.5	4702.8	4657.9	4542.9	4435.0	4415.3	4311.0	4165.5	4028.9	3892.3
7.5°	5247.3	5223.9	5177.2	5090.9	4923.8	4751.3	4735.1	4587.8	4381.1	4183.5	3987.6
10°	5667.8	5653.4	5592.3	5461.1	5265.3	5069.4	5049.6	4868.1	4634.5	4391.9	4142.1
12.5°	5994.8	5984.1	5903.2	5739.7	5531.2	5328.2	5301.2	5139.5	4889.7	4618.3	4323.6
15°	6194.3	6188.9	6090.1	5915.8	5710.9	5534.8	5511.4	5369.5	5137.7	4853.7	4521.3
17.5°	6241.0	6242.8	6140.4	5964.3	5795.4	5669.6	5651.6	5543.8	5349.7	5067.6	4719.0
20°	6136.8	6158.4	6066.7	5914.0	5809.8	5743.3	5728.9	5664.2	5500.7	5234.7	4877.1
22.5°	5989.5	6000.2	5937.3	5834.9	5791.8	5804.4	5797.2	5761.2	5622.9	5378.5	5033.4
25°	5899.6	5899.6	5861.9	5775.6	5804.4	5881.6	5883.4	5876.2	5766.6	5554.6	5223.9
27.5°	5896.0	5885.2	5842.1	5777.4	5856.5	5975.1	5982.3	6030.8	5962.5	5768.4	5461.1
30°	6039.8	6027.2	5935.5	5851.1	5951.7	6079.3	6097.3	6203.3	6169.2	6000.2	5725.3
32.5°	6375.8	6330.9	6127.8	5989.5	6064.9	6217.7	6241.0	6410.0	6463.9	6286.0	5980.5
35°	6835.8	6693.9	6401.0	6251.8	6259.0	6418.9	6440.5	6688.5	6848.4	6548.3	6178.1
37.5°	7470.2	7400.1	6923.9	6525.0	6557.3	6799.9	6862.8	7132.4	7087.4	6692.1	6402.8
40°	8861.1	8751.5	8244.7	7290.5	6843.0	7109.0	7128.8	7272.5	7276.1	7017.3	6870.0
42.5°	10755.1	10710.2	10176.5	8679.6	7405.5	7315.7	7351.6	7594.2	7865.5	7703.8	7696.6
45°	12852.3	12828.9	12262.8	10523.3	8543.0	7993.1	8038.1	8363.3	8882.6	8918.6	9146.8
47.5°	14539.7	14528.9	14203.6	12580.9	10284.3	9141.4	9155.8	9500.8	10413.7	10864.8	11229.5
50°	16077.9	16130.0	15873.0	14807.4	12656.4	10940.2	10906.1	11136.1	12602.5	13341.0	13793.9
52.5°	18216.3	18290.0	17569.4	16884.8	15145.2	13172.1	13145.2	13386.0	15233.3	15786.8	15867.6
55°	20105.0	19979.2	19409.6	19211.9	18180.4	15928.7	15921.6	16133.6	17777.9	18013.3	18162.4
57.5°	20938.8	20890.3	21165.2	21618.1	21359.3	19186.7	19170.6	19008.8	20054.7	20079.9	20538.1
60°	21465.4	21524.7	22367.5	23763.7	24408.9	22692.7	22588.5	21601.9	22229.1	22173.4	22664.0
62.5°	21070.0	21186.8	22703.5	25030.6	26691.1	25753.0	25605.7	23977.6	24087.2	23894.9	24351.4
65°	18971.1	19152.6	21637.9	24791.6	27823.2	28144.9	27995.7	26074.7	25562.5	25246.3	24992.9
67.5°	15404.0	15511.8	18106.7	22712.5	27312.8	29571.7	29541.1	27913.0	26676.7	25018.0	23052.1
69°	12730.1	12836.1	15333.9	20523.7	26189.7	29877.2	29936.5	28502.5	26464.6	23630.8	20424.9
70°	10782.1	10895.3	13222.4	18647.6	24886.9	29735.2	29841.2	28446.8	25857.3	22024.2	18119.3
72.5°	5655.2	5752.2	8140.5	12846.9	20288.3	27303.9	27625.5	26042.3	21918.2	15995.2	10713.8
75°	1777.2	1833.0	3178.9	6715.4	13890.9	21229.9	21303.6	20428.5	15564.0	8798.2	4462.0
77.5°	677.5	661.3	1058.4	2474.5	7022.7	13368.0	13819.0	12766.0	8167.4	3110.6	1029.7
80°	364.8	366.6	549.9	1024.3	3004.6	6870.0	7251.0	6187.1	2902.2	970.4	237.2
82.5°	158.1	165.3	309.1	542.7	1380.1	2533.8	2724.3	2267.8	1108.8	652.3	88.1
85°	34.1	37.7	149.2	294.7	562.5	711.6	745.8	735.0	706.2	506.8	34.1
87.5°	0.0	0.0	66.5	106.0	142.0	161.7	142.0	185.1	390.0	341.4	18.0
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°	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2	3840.2
2.5°	3843.8	3811.5	3755.8	3694.7	3651.5	3606.6	3570.7	3554.5	3536.5	3523.9	3540.1
5°	3836.6	3773.7	3665.9	3561.7	3486.2	3425.1	3374.8	3355.0	3335.3	3320.9	3319.1
7.5°	3899.5	3811.5	3646.1	3493.4	3376.6	3293.9	3225.6	3196.9	3173.5	3162.7	3153.8
10°	4019.9	3906.7	3685.7	3486.2	3335.3	3195.1	3047.7	2934.5	2860.8	2826.7	2814.1
12.5°	4176.3	4034.3	3761.2	3523.9	3304.7	3035.2	2722.5	2452.9	2278.6	2221.1	2187.0
15°	4359.6	4183.5	3860.0	3572.5	3193.3	2700.9	2170.8	1818.6	1656.8	1624.5	1588.6
17.5°	4535.7	4341.6	3978.6	3581.5	2948.9	2158.2	1590.4	1351.4	1288.5	1310.0	1315.4
20°	4690.2	4497.9	4095.4	3502.4	2505.0	1619.1	1231.0	1171.7	1195.0	1236.3	1243.5
22.5°	4846.6	4648.9	4203.2	3293.9	1937.2	1229.2	1108.8	1123.1	1146.5	1187.8	1195.0
25°	5037.0	4832.2	4303.9	2911.2	1453.8	1045.9	1053.1	1074.6	1098.0	1135.7	1139.3
27.5°	5256.3	5064.0	4370.3	2413.4	1078.2	961.4	984.8	1017.1	1040.5	1076.4	1083.6
30°	5547.4	5369.5	4391.9	1897.6	903.9	885.9	896.7	936.2	970.4	1002.7	1008.1
32.5°	5820.5	5671.4	4320.0	1432.2	837.4	815.8	815.8	839.2	878.7	909.3	916.5
35°	6072.1	5975.1	4090.0	1047.7	787.1	751.2	733.2	733.2	758.3	783.5	790.7
37.5°	6404.6	6401.0	3718.0	835.6	738.6	697.2	659.5	630.8	621.8	627.2	630.8
40°	6974.2	6979.6	3232.8	749.4	697.2	641.5	584.0	531.9	483.4	467.2	465.4
42.5°	7863.7	7782.9	2724.3	708.0	661.3	584.0	497.8	427.7	352.2	328.9	327.1
45°	9276.2	8796.4	2185.2	670.3	623.6	519.3	411.5	316.3	255.2	237.2	237.2
47.5°	11333.8	10128.0	1692.8	629.0	573.2	445.7	310.9	228.2	186.9	177.9	179.7
50°	13461.4	11432.6	1297.4	576.8	512.1	368.4	230.0	165.3	142.0	142.0	143.8
52.5°	15348.3	12388.6	1011.7	521.1	436.7	289.3	174.3	129.4	118.6	116.8	118.6
55°	17114.8	13005.0	774.5	456.4	346.8	215.6	133.0	106.0	98.8	95.2	93.4
57.5°	18818.3	13310.5	580.4	368.4	251.6	156.3	106.0	89.9	82.7	77.3	75.5
60°	19952.3	13062.5	398.9	271.3	174.3	113.2	88.1	77.3	68.3	62.9	61.1
62.5°	20592.0	12385.0	257.0	195.9	124.0	84.5	70.1	64.7	52.1	46.7	46.7
65°	20333.2	11267.3	179.7	140.2	89.9	62.9	52.1	52.1	37.7	30.5	28.8
67.5°	18018.7	9518.8	136.6	104.2	64.7	46.7	39.5	44.9	23.4	14.4	14.4
69°	15502.9	7888.9	116.8	86.3	53.9	37.7	34.1	41.3	16.2	10.8	9.0
70°	13474.0	6805.3	106.0	75.5	44.9	32.3	30.5	39.5	16.2	9.0	7.2
72.5°	8061.4	3795.3	80.9	53.9	28.8	25.2	25.2	44.9	16.2	9.0	7.2
75°	3258.0	1337.0	59.3	37.7	21.6	21.6	30.5	57.5	14.4	7.2	5.4
77.5°	738.6	292.9	34.1	23.4	14.4	21.6	35.9	44.9	9.0	3.6	0.0
80°	179.7	71.9	21.6	14.4	9.0	16.2	27.0	25.2	1.8	0.0	0.0
82.5°	59.3	25.2	9.0	7.2	1.8	5.4	12.6	7.2	0.0	0.0	0.0
85°	25.2	14.4	3.6	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0
87.5°	16.2	5.4	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)