

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: P318834

Luminaire Tested: **GAN-SA0A-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34112 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

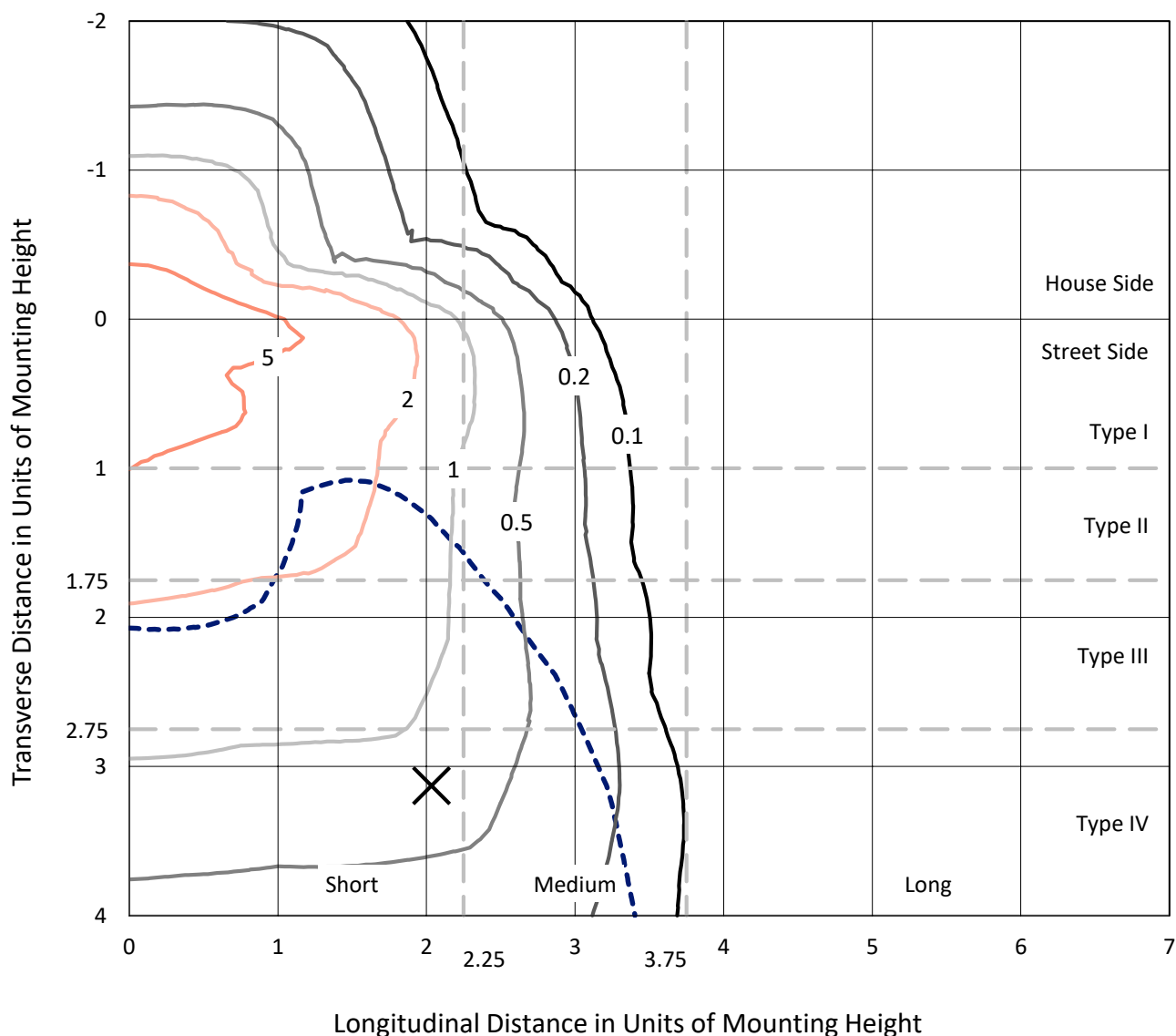
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

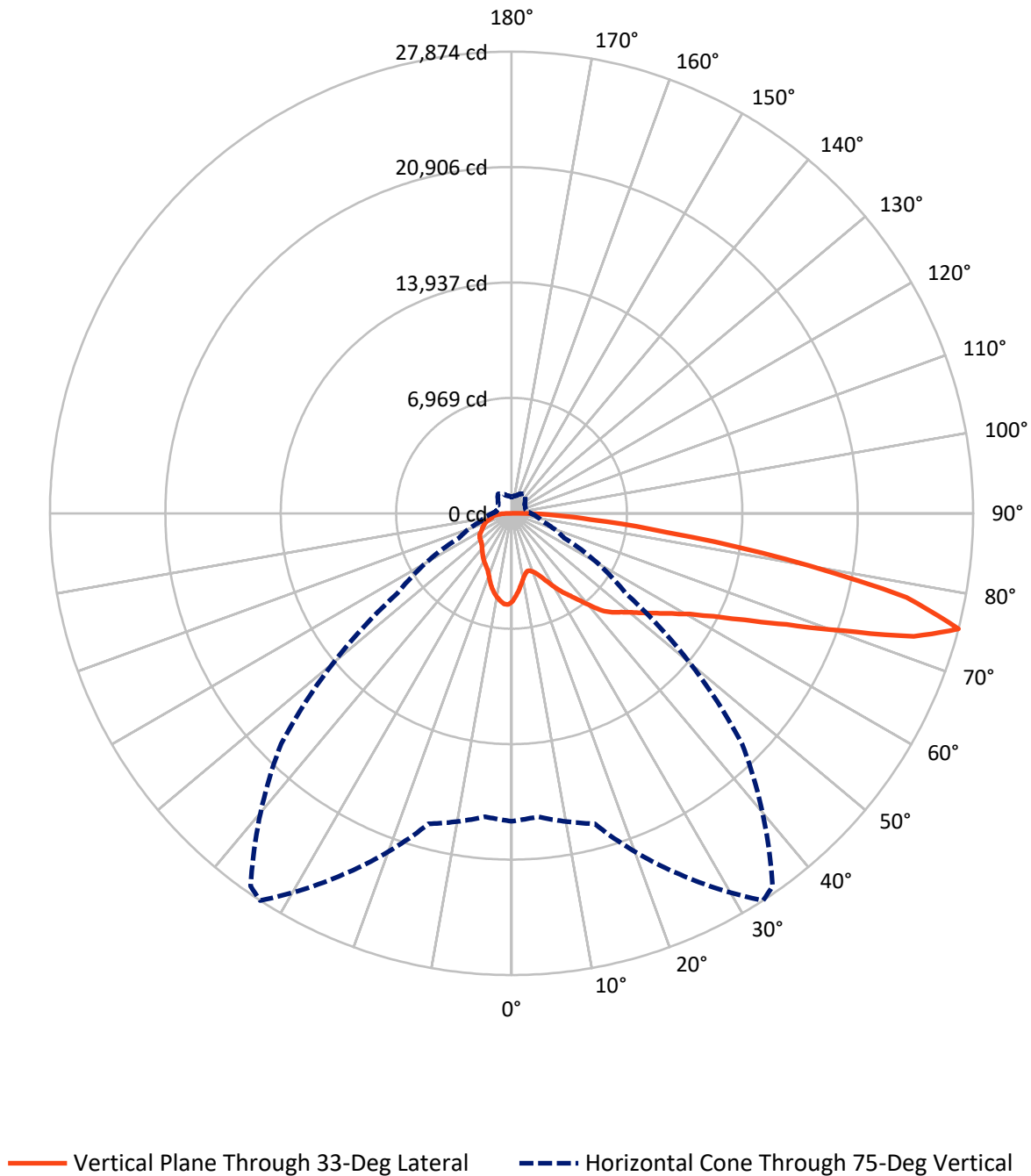
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	7324.7	0.0	7324.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	26787.3	0.0	26787.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	34112.0	0.0	34112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.2	1.4
10°-20°	1306.0	3.8
20°-30°	2132.9	6.3
30°-40°	3176.4	9.3
40°-50°	4555.8	13.4
50°-60°	6254.4	18.3
60°-70°	7830.3	23.0
70°-80°	7083.7	20.8
80°-90°	1290.3	3.8
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°	34112.0	100.0
0°-180°	34112.0	100.0

Coefficient of Utilization



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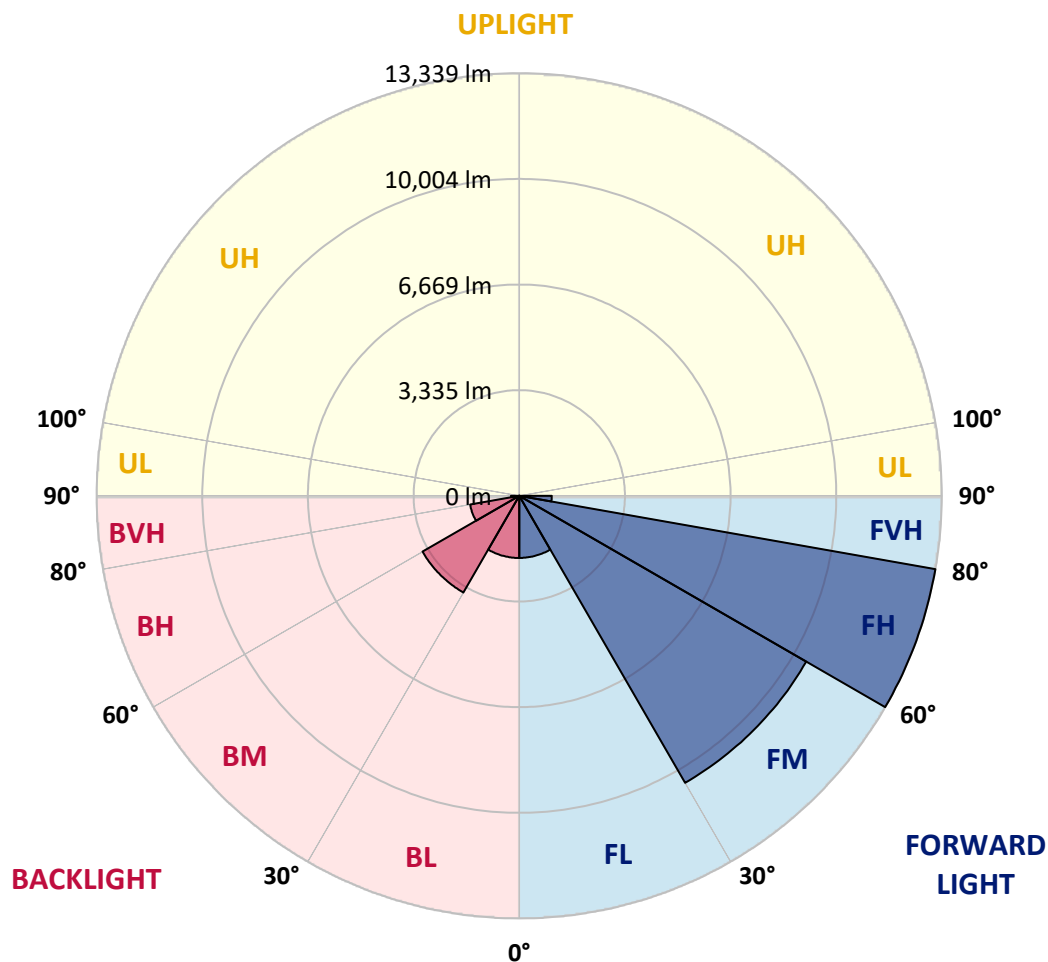
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.2	5.7			
FM	(30°-60°)	10461.4	30.7			
FH	(60°-80°)	13339.0	39.1			G5
FVH	(80°-90°)	1027.6	3.0			G5
BL	(0°-30°)	1961.9	5.8	B3/2500		
BM	(30°-60°)	3525.2	10.3	B3/5000		
BH	(60°-80°)	1574.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	262.7	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9
2.5°	4951.3	4932.4	4967.8	4972.5	5003.1	5014.9	5057.3	5123.3	5177.5	5240.0	5296.5
5°	4502.4	4489.4	4538.9	4574.2	4641.4	4669.7	4769.8	4910.1	5035.0	5176.4	5304.8
7.5°	4075.8	4068.7	4124.1	4204.2	4282.0	4320.9	4494.1	4698.0	4906.5	5135.1	5331.9
10°	3716.4	3714.1	3767.1	3846.0	3960.3	4003.9	4227.8	4496.5	4788.7	5103.3	5377.9
12.5°	3514.9	3523.2	3547.9	3613.9	3720.0	3763.6	4012.2	4328.0	4689.7	5092.7	5445.0
15°	3564.4	3577.4	3535.0	3532.6	3608.0	3642.2	3875.5	4207.8	4619.0	5110.4	5542.8
17.5°	3775.3	3777.7	3665.8	3595.1	3641.0	3658.7	3833.1	4139.4	4577.8	5150.4	5665.4
20°	4072.3	4066.4	3868.4	3750.6	3775.3	3780.0	3893.2	4140.6	4574.2	5220.0	5824.4
22.5°	4465.8	4422.2	4155.9	3995.7	3989.8	3982.7	4047.5	4227.8	4626.1	5333.1	6014.1
25°	4979.6	4938.3	4571.9	4352.7	4305.6	4287.9	4297.3	4414.0	4728.6	5454.4	6226.2
27.5°	5551.1	5479.2	5125.7	4815.8	4718.0	4693.2	4636.7	4676.8	4840.5	5571.1	6478.4
30°	6029.5	5990.6	5681.9	5314.2	5198.7	5163.4	5014.9	4971.3	5002.0	5730.2	6796.5
32.5°	6296.9	6271.0	6083.7	5786.7	5679.5	5630.0	5420.3	5333.1	5261.2	5981.2	7227.8
35°	6621.0	6604.5	6491.4	6275.7	6116.7	6064.8	5902.2	5811.5	5626.5	6326.4	7785.2
37.5°	7033.4	7015.7	7018.1	6843.7	6654.0	6605.7	6498.4	6403.0	6100.2	6780.1	8390.8
40°	7500.0	7465.8	7452.9	7444.6	7324.4	7297.3	7240.8	7111.2	6694.0	7322.1	8988.2
42.5°	8202.3	8080.9	7821.7	7919.5	8038.5	8024.4	8070.3	7884.1	7353.9	7963.1	9571.5
45°	8879.8	8680.7	8232.9	8254.1	8514.5	8593.5	8937.6	8805.6	8069.1	8665.4	10174.8
47.5°	9188.5	9037.7	8657.1	8658.3	8916.3	9080.1	9834.3	9740.0	8820.9	9463.1	10911.2
50°	9533.8	9383.0	9041.2	9169.7	9394.7	9569.1	10700.3	10652.0	9536.1	10336.2	11793.8
52.5°	9910.8	9655.2	9438.3	9668.1	9983.9	10186.6	11567.6	11435.6	10192.5	11215.2	12808.3
55°	9915.6	9846.0	10011.0	10179.5	10652.0	10900.6	12476.0	12127.3	10727.4	12079.0	13634.3
57.5°	10480.0	10366.9	10716.8	10794.6	11412.0	11692.5	13379.8	12729.4	11271.8	12741.2	14079.7
60°	11227.0	11130.4	11416.7	11621.8	12352.3	12727.0	14344.9	13348.0	11699.5	13240.8	14058.5
62.5°	12517.3	12407.7	12404.2	12691.7	13675.6	14111.6	15427.7	13954.8	11869.2	13339.8	13458.8
65°	14406.1	14231.7	13903.0	14039.7	15503.2	15938.0	16637.9	14394.4	11645.3	12809.5	11914.0
67.5°	16244.3	16238.4	15834.3	16114.7	17916.4	18265.1	18016.5	14438.0	10946.6	10963.1	9173.2
70°	18076.6	18100.2	18031.8	19007.5	21176.8	21539.7	19484.7	13852.3	9375.9	7917.1	5495.7
72.5°	19528.3	19522.4	19866.5	22382.2	25408.1	25326.8	20721.9	12077.8	6731.7	4273.8	2626.5
75°	18588.0	18383.0	19408.1	24053.0	27874.3	27477.2	19669.7	8425.0	3493.7	1945.4	1414.0
77.5°	12123.7	12318.2	13822.9	19870.0	24381.8	23898.7	14430.9	3930.9	1646.1	1276.1	1025.1
80°	4390.4	4595.4	6472.5	11255.3	16798.1	16719.2	7106.4	1615.5	1113.5	963.9	747.1
82.5°	1510.6	1586.0	2553.4	4998.4	9484.3	9837.8	2673.6	917.9	809.5	683.4	511.4
85°	592.7	678.7	1167.7	2405.0	4784.0	4819.3	1082.9	549.1	563.2	447.8	280.4
87.5°	225.1	273.4	558.5	1117.0	2184.6	2006.7	387.7	261.6	320.5	266.3	133.2
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°	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9	5331.9
2.5°	5340.1	5364.9	5416.7	5452.1	5489.8	5500.4	5505.1	5514.5	5524.0	5520.4	5521.6
5°	5373.1	5421.4	5505.1	5540.5	5557.0	5538.1	5501.6	5472.1	5450.9	5439.1	5435.6
7.5°	5427.3	5495.7	5585.2	5579.3	5541.6	5458.0	5363.7	5293.0	5234.1	5212.9	5201.1
10°	5499.2	5579.3	5641.8	5574.6	5465.0	5320.1	5178.7	5069.1	4980.8	4946.6	4940.7
12.5°	5591.1	5672.4	5684.2	5541.6	5360.2	5162.2	4970.2	4825.2	4693.2	4650.8	4641.4
15°	5710.1	5786.7	5713.7	5483.9	5230.6	4964.3	4715.6	4518.9	4379.8	4328.0	4309.1
17.5°	5835.0	5908.1	5719.6	5388.5	5060.9	4729.8	4417.5	4216.0	4057.0	3996.9	3989.8
20°	5984.7	6017.7	5694.8	5251.8	4827.6	4425.8	4097.0	3907.3	3822.5	3780.0	3775.3
22.5°	6169.7	6134.3	5638.3	5066.8	4531.8	4074.6	3807.2	3718.8	3697.6	3688.1	3691.7
25°	6365.3	6256.9	5554.6	4825.2	4158.3	3723.5	3595.1	3619.8	3648.1	3644.5	3644.5
27.5°	6580.9	6381.8	5426.2	4504.7	3744.7	3436.0	3451.3	3542.0	3584.4	3583.3	3582.1
30°	6857.8	6523.2	5262.4	4119.4	3358.2	3233.3	3326.4	3437.2	3494.9	3492.5	3493.7
32.5°	7198.4	6678.7	5039.7	3689.3	3078.9	3083.7	3190.9	3300.5	3367.6	3361.7	3362.9
35°	7596.6	6853.1	4738.0	3265.1	2894.0	2964.7	3049.5	3126.1	3189.7	3181.5	3173.2
37.5°	8030.2	7024.0	4337.4	2885.7	2743.1	2853.9	2924.6	2937.6	2967.0	2945.8	2930.5
40°	8442.7	7154.8	3821.3	2574.6	2591.1	2759.6	2805.6	2753.7	2700.7	2693.6	2672.4
42.5°	8802.0	7198.4	3299.3	2326.0	2430.9	2660.6	2688.9	2580.5	2485.1	2440.3	2421.4
45°	9181.5	7213.7	2812.6	2117.4	2276.5	2572.3	2602.9	2458.0	2323.6	2227.0	2195.2
47.5°	9677.5	7324.4	2434.4	1963.1	2158.7	2513.4	2557.0	2360.2	2185.8	2047.9	2018.5
50°	10326.8	7543.6	2126.9	1845.2	2082.1	2474.5	2524.0	2264.7	2072.7	1906.5	1877.1
52.5°	11047.9	7745.1	1878.2	1749.8	2007.9	2406.1	2481.5	2196.4	1966.6	1775.7	1743.9
55°	11552.2	7590.7	1677.9	1650.8	1911.2	2308.3	2422.6	2138.7	1814.6	1648.5	1620.2
57.5°	11648.9	7062.8	1525.9	1548.3	1794.6	2185.8	2331.9	2010.2	1732.1	1593.1	1563.6
60°	11384.9	6327.6	1412.8	1454.0	1669.7	2031.4	2162.2	1919.5	1653.2	1534.2	1509.4
62.5°	10721.5	5574.6	1329.1	1369.2	1553.0	1874.7	2056.2	1824.0	1573.1	1467.0	1442.3
65°	9381.8	4680.3	1249.0	1293.8	1444.6	1739.2	1960.7	1735.7	1494.1	1412.8	1389.2
67.5°	7081.7	3505.5	1173.6	1213.7	1348.0	1621.4	1857.0	1648.5	1417.5	1365.7	1337.4
70°	4170.1	2195.2	1087.6	1130.0	1246.7	1498.8	1746.3	1553.0	1322.1	1298.5	1262.0
72.5°	1940.7	1320.9	989.8	1031.0	1119.4	1335.0	1603.7	1428.1	1209.0	1157.1	1107.6
75°	1158.3	966.2	874.3	910.8	973.3	1160.6	1424.6	1300.9	1101.7	1033.4	981.5
77.5°	866.1	738.8	747.1	785.9	836.6	1015.7	1262.0	1200.7	1019.2	966.2	930.9
80°	623.3	560.9	609.2	651.6	704.6	923.8	1209.0	1110.0	921.4	850.7	817.8
82.5°	415.9	403.0	458.4	502.0	553.8	808.3	1135.9	972.1	787.1	697.6	624.5
85°	229.8	242.7	308.7	327.6	372.3	569.1	930.9	781.2	592.7	477.2	456.0
87.5°	95.4	111.9	166.1	160.3	198.0	339.4	612.7	471.3	377.1	281.6	219.2
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)