

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: P321077

Luminaire Tested: **GAN-SA3B-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13158 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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



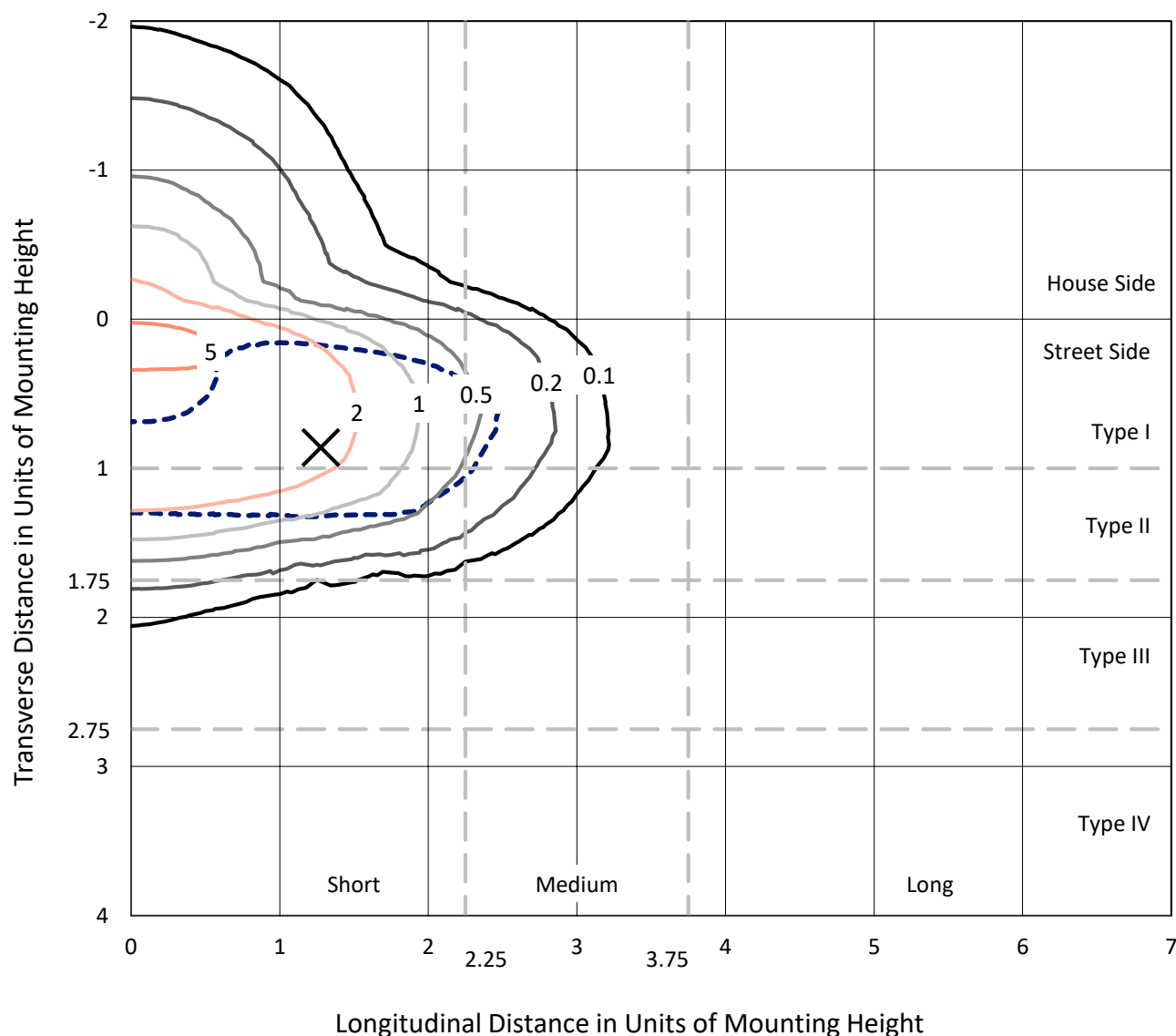
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

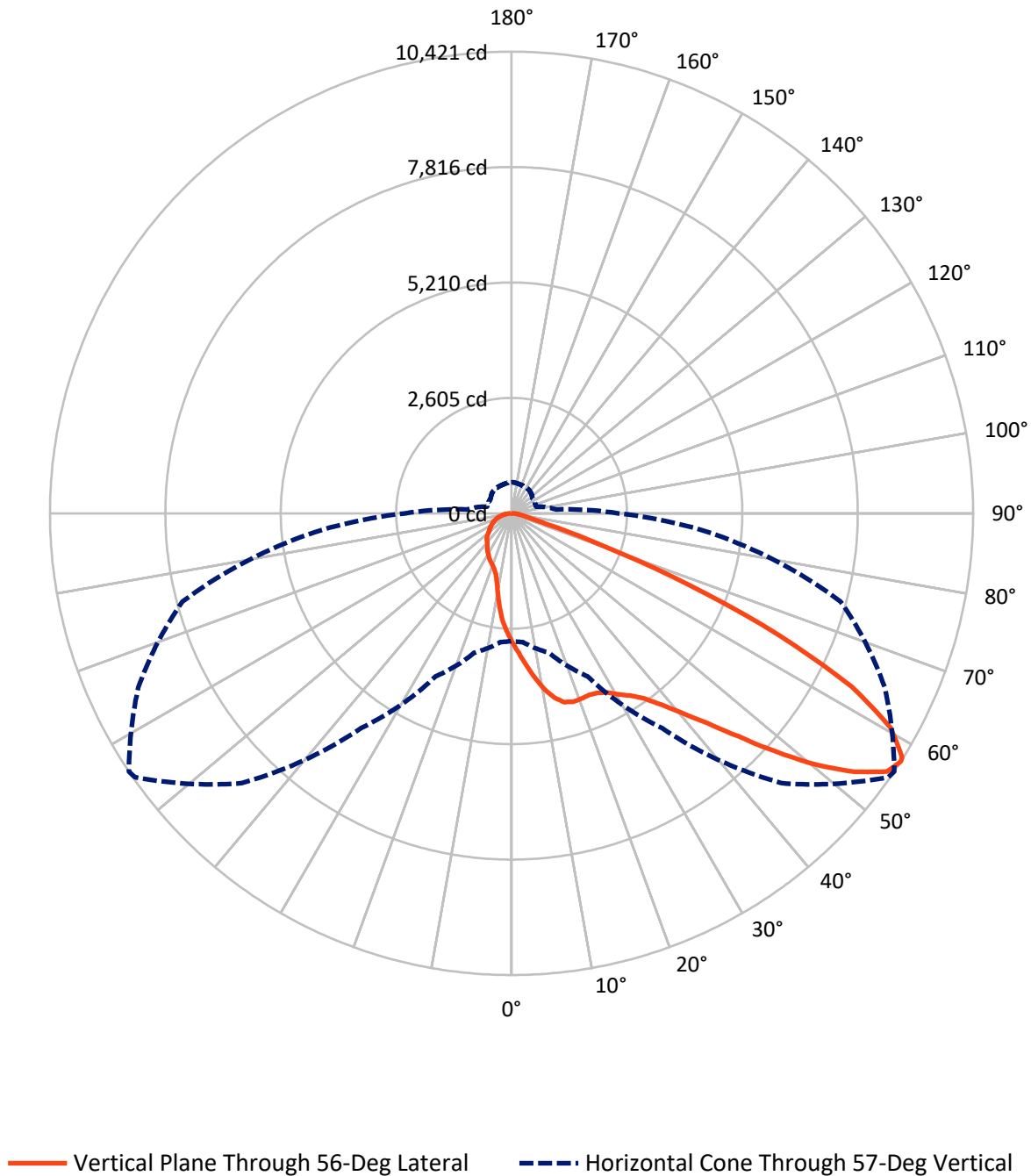


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2268.2	0.0	2268.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	10889.8	0.0	10889.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	13158.0	0.0	13158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	2.1
10°-20°	788.2	6.0
20°-30°	1283.8	9.8
30°-40°	1919.2	14.6
40°-50°	2911.0	22.1
50°-60°	3262.7	24.8
60°-70°	1927.1	14.6
70°-80°	631.4	4.8
80°-90°	156.0	1.2
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°	13158.0	100.0
0°-180°	13158.0	100.0

Coefficient of Utilization



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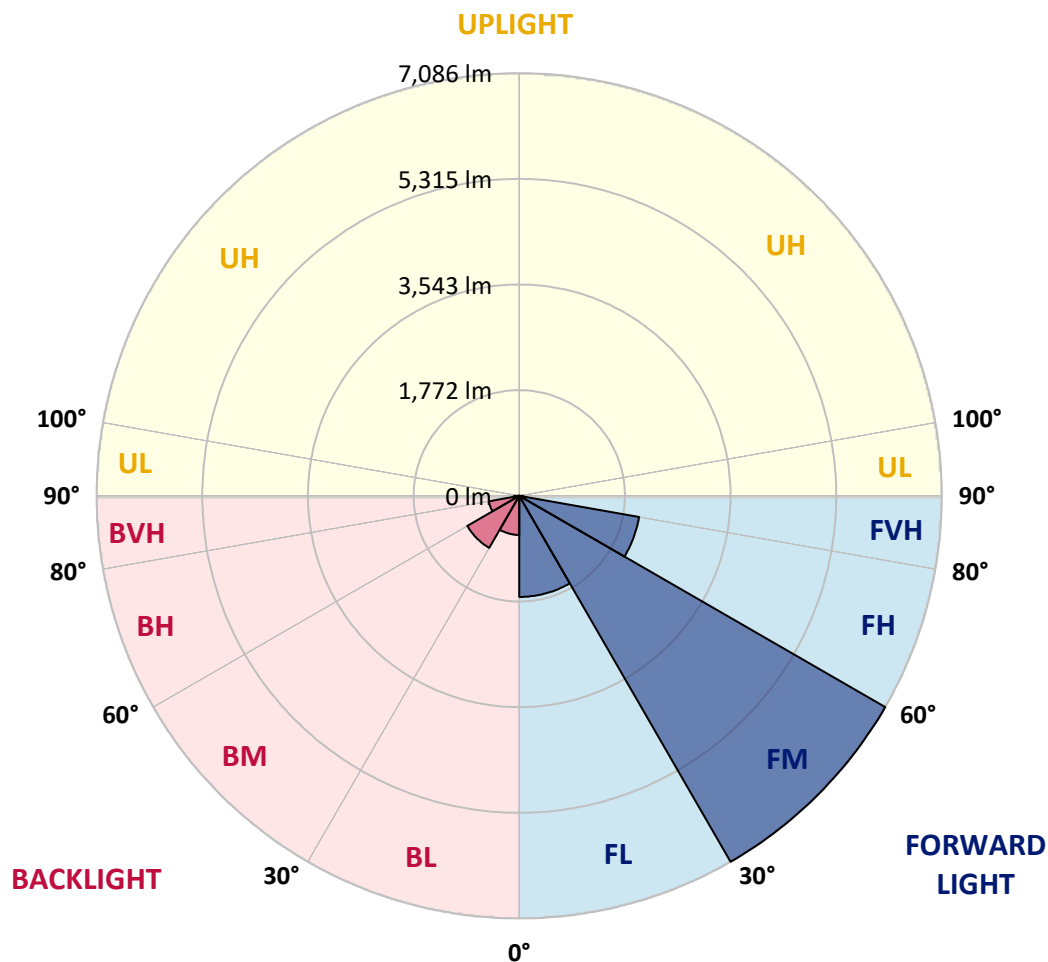
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1694.9	12.9			
FM	(30°-60°)	7086.0	53.9			
FH	(60°-80°)	2040.2	15.5			G2/5000
FVH	(80°-90°)	68.7	0.5			G1/100
BL	(0°-30°)	655.8	5.0	B2/1000		
BM	(30°-60°)	1006.8	7.7	B2/2500		
BH	(60°-80°)	518.2	3.9	B2/1000		G2/1000
BVH	(80°-90°)	87.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5
2.5°	3351.2	3382.0	3368.4	3321.4	3285.2	3234.1	3177.1	3159.9	3099.8	3032.4	2951.5
5°	3881.6	3866.3	3844.1	3770.8	3693.5	3603.5	3460.6	3438.0	3304.2	3151.8	2990.8
7.5°	4183.7	4182.3	4169.2	4126.3	4055.7	3938.2	3765.9	3739.2	3537.1	3292.0	3042.4
10°	4139.8	4136.7	4158.4	4203.1	4224.4	4200.0	4054.8	4028.1	3779.9	3447.1	3102.0
12.5°	3890.7	3892.5	3927.3	4021.4	4149.3	4303.1	4279.6	4266.4	4031.8	3622.5	3174.4
15°	3696.7	3700.8	3728.3	3810.2	3961.2	4240.2	4416.1	4420.6	4275.5	3816.1	3259.0
17.5°	3611.7	3620.3	3632.9	3690.4	3828.7	4115.0	4448.7	4473.1	4488.9	4016.8	3340.4
20°	3638.8	3646.9	3650.6	3687.2	3800.7	4039.0	4426.1	4469.9	4652.6	4205.9	3421.7
22.5°	3760.4	3765.4	3767.7	3777.2	3865.3	4060.7	4411.1	4457.3	4771.1	4375.4	3483.2
25°	3962.1	3958.5	3944.0	3931.8	3991.1	4146.6	4445.5	4489.4	4867.4	4529.2	3523.5
27.5°	4203.6	4199.1	4171.0	4137.6	4171.5	4280.5	4544.5	4579.4	4953.8	4673.0	3543.8
30°	4493.4	4481.7	4428.8	4389.0	4402.1	4481.2	4707.8	4739.4	5087.2	4836.2	3563.7
32.5°	4828.5	4815.9	4739.4	4673.4	4673.4	4739.4	4876.0	4902.2	5200.2	5020.7	3595.8
35°	5248.2	5232.3	5132.8	5022.1	4990.9	5024.3	5105.3	5123.8	5403.7	5253.1	3654.2
37.5°	5742.9	5721.6	5592.7	5444.4	5376.1	5374.3	5432.7	5470.6	5728.8	5558.4	3753.2
40°	6238.9	6224.0	6111.4	5994.7	5860.9	5817.9	5907.9	5919.7	6153.9	5937.3	3879.8
42.5°	6622.4	6619.7	6598.9	6614.2	6477.2	6390.4	6460.9	6470.4	6673.0	6347.4	4014.6
45°	6825.0	6829.5	6930.3	7153.7	7204.3	7141.0	7175.9	7178.6	7266.3	6761.2	4138.0
47.5°	6662.6	6686.1	6941.2	7440.8	7855.5	8065.8	8007.9	8041.4	7841.5	7116.6	4234.8
50°	6030.0	6058.9	6493.0	7312.9	8159.4	8960.7	8930.4	8922.7	8305.4	7377.1	4287.2
52.5°	5246.3	5269.0	5627.1	6647.7	7936.4	9455.4	9733.5	9693.7	8717.8	7572.0	4297.2
55°	4053.0	4088.3	4431.5	5320.1	7034.8	9266.3	10324.0	10288.3	9093.6	7674.2	4285.4
57°	2881.4	2918.5	3259.4	4060.2	5917.9	8612.0	10382.8	10420.8	9296.6	7691.4	4298.6
57.5°	2571.2	2609.2	2946.9	3724.7	5569.7	8375.5	10332.2	10395.5	9333.3	7688.6	4305.8
60°	1294.6	1309.1	1524.3	2079.2	3520.8	6771.1	9671.5	9834.8	9366.3	7555.7	4337.0
62.5°	804.9	794.5	787.7	957.7	1712.9	4490.3	8308.1	8622.4	8734.6	7233.7	4261.5
65°	707.7	688.2	613.6	600.1	756.5	2180.9	6256.5	6647.7	7384.8	6726.4	4081.5
67.5°	664.7	645.7	561.6	511.0	511.4	864.6	3884.3	4324.8	5752.8	5868.6	3656.9
70°	620.4	603.2	524.5	464.9	435.5	478.9	1787.1	2121.2	3750.0	4612.8	3056.4
72.5°	563.4	551.7	477.1	415.6	384.4	358.6	684.2	808.1	2171.0	3098.0	2122.6
75°	503.7	492.9	429.1	370.3	332.4	282.2	385.3	415.1	1102.9	1584.9	1045.0
77.5°	438.2	431.8	381.7	327.4	297.1	233.8	272.7	287.1	473.0	679.6	524.1
80°	348.6	360.9	333.7	291.7	263.6	187.2	193.1	202.6	275.4	331.9	297.5
82.5°	227.0	248.3	261.4	236.9	217.1	147.4	138.8	142.9	179.5	202.6	129.3
85°	94.5	106.3	171.8	155.1	144.2	107.6	93.2	95.0	111.2	115.3	52.9
87.5°	42.1	44.8	75.5	71.0	61.0	37.1	39.8	43.4	59.2	56.1	20.3
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°	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5	2918.5
2.5°	2921.2	2883.2	2818.1	2746.2	2687.4	2640.4	2592.9	2560.3	2522.3	2502.0	2491.6
5°	2923.4	2848.8	2711.8	2571.2	2445.5	2330.6	2221.2	2137.1	2058.4	2015.9	2004.1
7.5°	2932.9	2820.8	2599.2	2367.7	2144.3	1940.4	1783.0	1684.4	1613.4	1581.8	1572.7
10°	2940.6	2787.8	2459.9	2117.2	1813.3	1606.6	1484.6	1429.4	1405.0	1400.9	1396.8
12.5°	2958.7	2753.9	2313.4	1855.8	1556.0	1413.1	1370.6	1367.0	1373.8	1383.7	1383.7
15°	2987.2	2720.4	2146.1	1631.5	1392.3	1342.1	1350.7	1370.6	1389.1	1404.5	1406.8
17.5°	3008.0	2679.2	1966.1	1452.0	1305.0	1318.6	1349.3	1377.4	1396.4	1411.3	1412.7
20°	3022.9	2615.5	1774.0	1315.0	1254.8	1296.9	1335.3	1360.2	1373.3	1388.2	1390.5
22.5°	3015.2	2530.0	1603.5	1216.9	1214.1	1265.2	1301.9	1331.7	1321.8	1307.3	1316.8
25°	2978.1	2412.5	1428.0	1143.6	1171.2	1222.7	1268.0	1248.1	1214.6	1208.3	1211.9
27.5°	2912.1	2262.3	1265.7	1075.8	1121.4	1183.4	1180.7	1160.8	1149.0	1140.9	1145.9
30°	2841.1	2099.5	1123.7	1016.5	1066.3	1117.4	1107.0	1106.5	1094.8	1081.6	1088.0
32.5°	2771.0	1935.8	1011.1	967.7	1024.7	1031.5	1054.1	1060.8	1037.8	1010.2	1008.4
35°	2710.0	1781.2	925.6	923.4	974.5	975.4	1008.4	998.9	941.5	913.0	913.0
37.5°	2664.3	1627.0	860.5	883.6	908.5	932.0	948.7	909.4	899.9	884.0	883.6
40°	2644.4	1491.3	819.8	853.3	861.9	891.7	848.8	864.1	868.7	860.5	860.5
42.5°	2623.6	1373.3	784.6	830.2	828.9	824.8	803.1	823.0	841.1	841.5	840.2
45°	2602.8	1271.6	753.4	780.9	799.9	756.1	760.1	781.4	806.7	815.8	815.8
47.5°	2579.8	1191.1	724.9	728.9	758.3	728.9	725.8	742.0	771.9	786.4	789.5
50°	2529.1	1118.7	692.3	683.3	691.4	701.4	704.1	711.8	744.8	767.8	773.3
52.5°	2459.0	1054.1	650.7	641.2	641.2	678.7	691.4	693.7	721.7	749.3	754.7
55°	2400.7	1012.9	607.7	605.9	604.1	654.8	676.5	680.1	699.5	721.2	724.0
57°	2404.8	1009.7	574.7	576.5	576.1	630.4	662.5	670.2	680.1	698.6	701.8
57.5°	2407.0	1012.0	567.5	568.4	568.0	623.6	658.4	667.0	674.7	694.1	697.3
60°	2440.9	1017.9	538.1	528.2	530.4	587.4	635.3	646.2	651.2	676.9	681.0
62.5°	2390.7	991.7	514.6	490.6	490.6	549.4	603.2	620.4	628.1	662.9	669.7
65°	2245.1	918.0	487.0	448.1	452.6	511.4	564.8	592.8	604.6	648.0	655.2
67.5°	2020.4	832.5	457.6	410.1	414.7	471.6	525.0	555.3	573.8	631.7	637.6
70°	1727.8	728.0	417.8	369.9	375.3	428.2	478.0	512.3	539.9	616.3	618.1
72.5°	1273.8	596.9	362.2	325.6	331.5	377.6	430.5	470.3	507.4	577.9	577.0
75°	757.4	466.7	300.7	280.8	284.9	327.8	387.5	435.9	491.5	563.0	571.6
77.5°	459.4	351.4	245.1	235.1	240.1	284.0	356.8	408.3	484.8	530.9	528.2
80°	277.6	251.0	195.8	189.5	194.4	242.8	330.1	387.5	423.7	453.6	453.6
82.5°	145.2	153.3	143.8	138.8	145.6	197.2	300.3	338.2	374.4	321.5	300.3
85°	59.2	80.0	87.3	86.8	90.9	136.6	259.1	289.4	241.5	229.3	234.7
87.5°	19.9	33.9	42.5	36.6	38.4	85.9	179.5	139.7	166.0	115.8	109.9
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)