

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: P318899

Luminaire Tested: **GAN-SA5D-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318899
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-SA5D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 31002 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

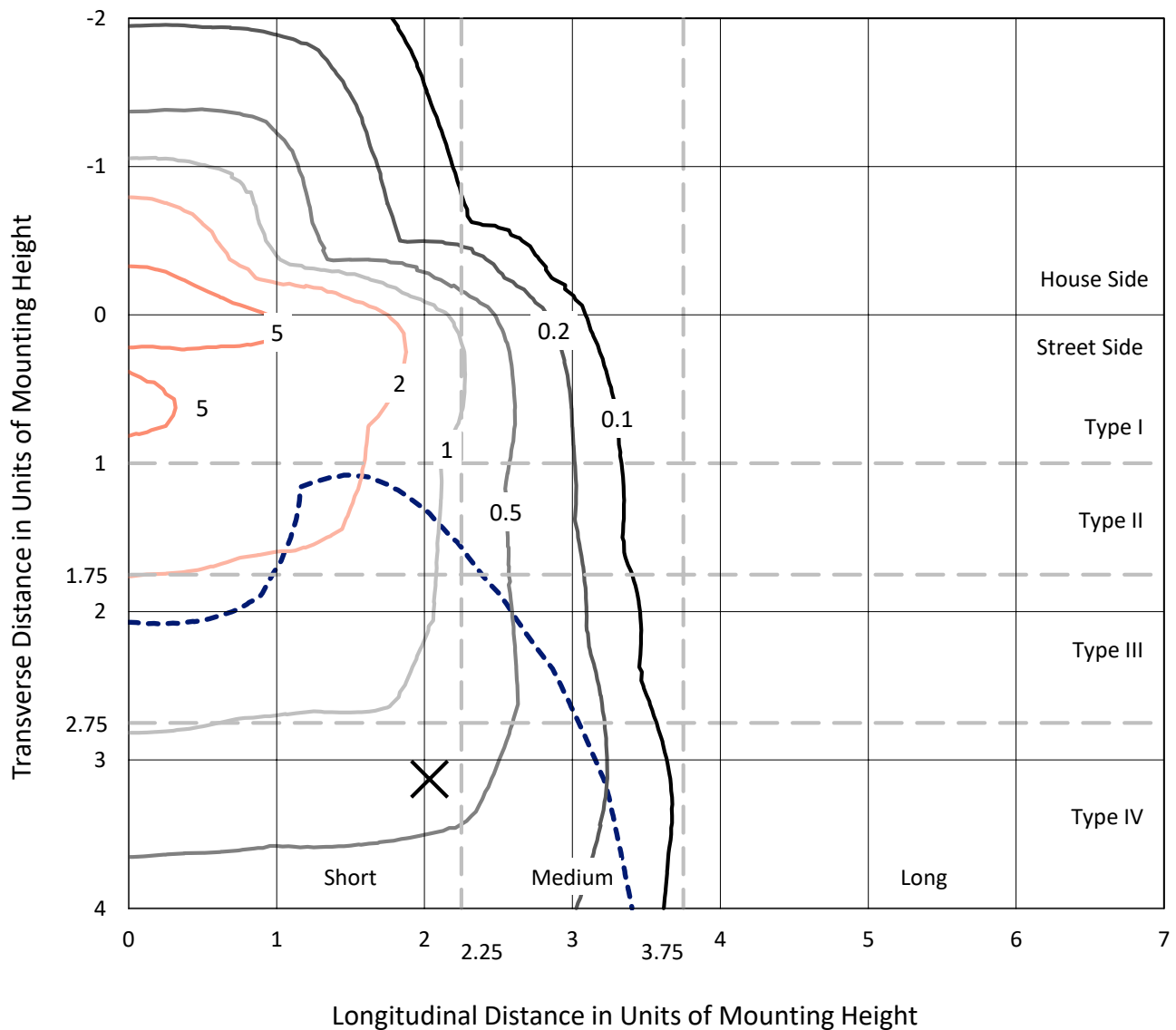
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

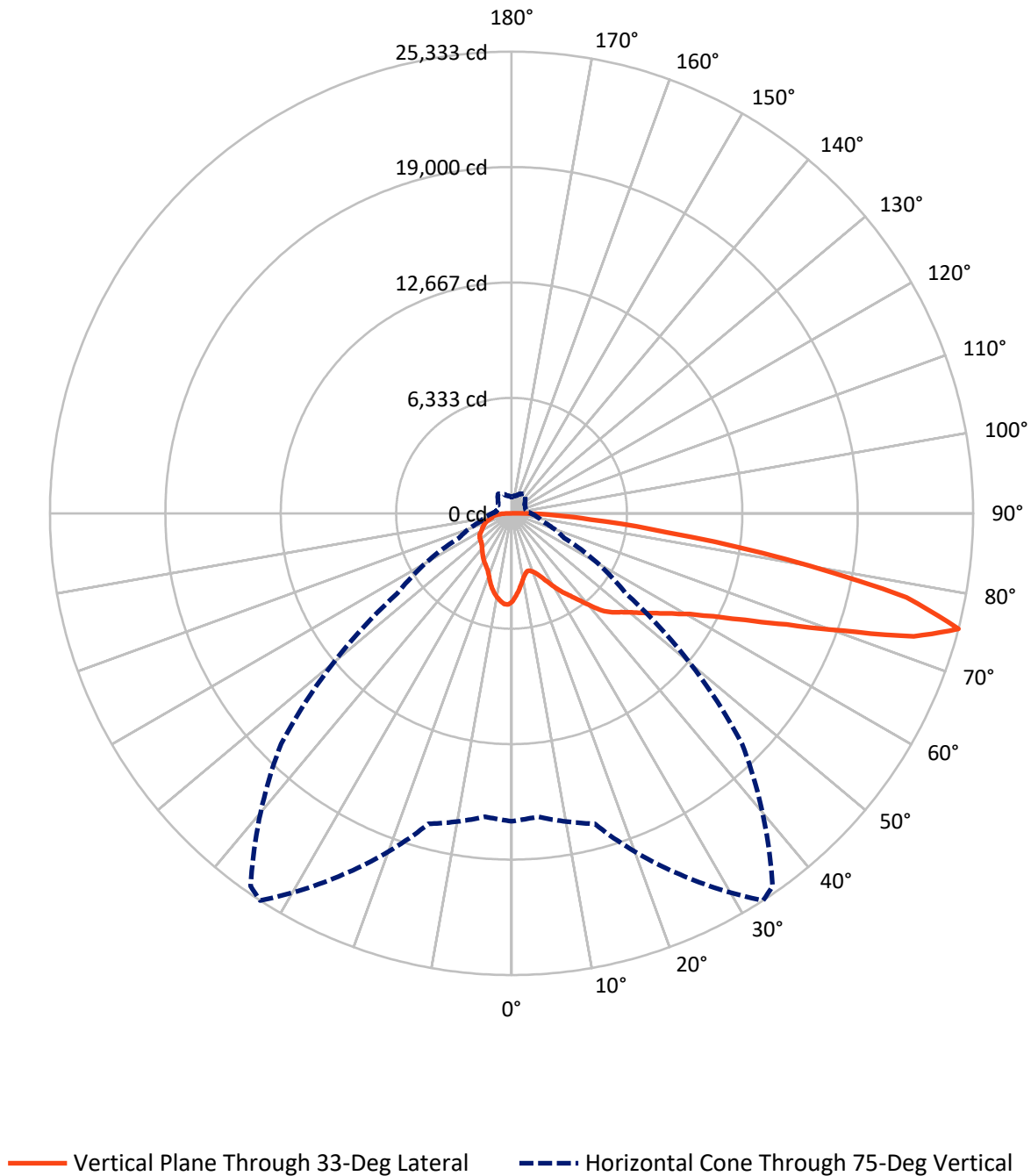
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	6656.9	0.0	6656.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	24345.1	0.0	24345.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	31002.0	0.0	31002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.2	1.4
10°-20°	1186.9	3.8
20°-30°	1938.5	6.3
30°-40°	2886.8	9.3
40°-50°	4140.5	13.4
50°-60°	5684.2	18.3
60°-70°	7116.4	23.0
70°-80°	6437.8	20.8
80°-90°	1172.7	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°	31002.0	100.0
0°-180°	31002.0	100.0

Coefficient of Utilization



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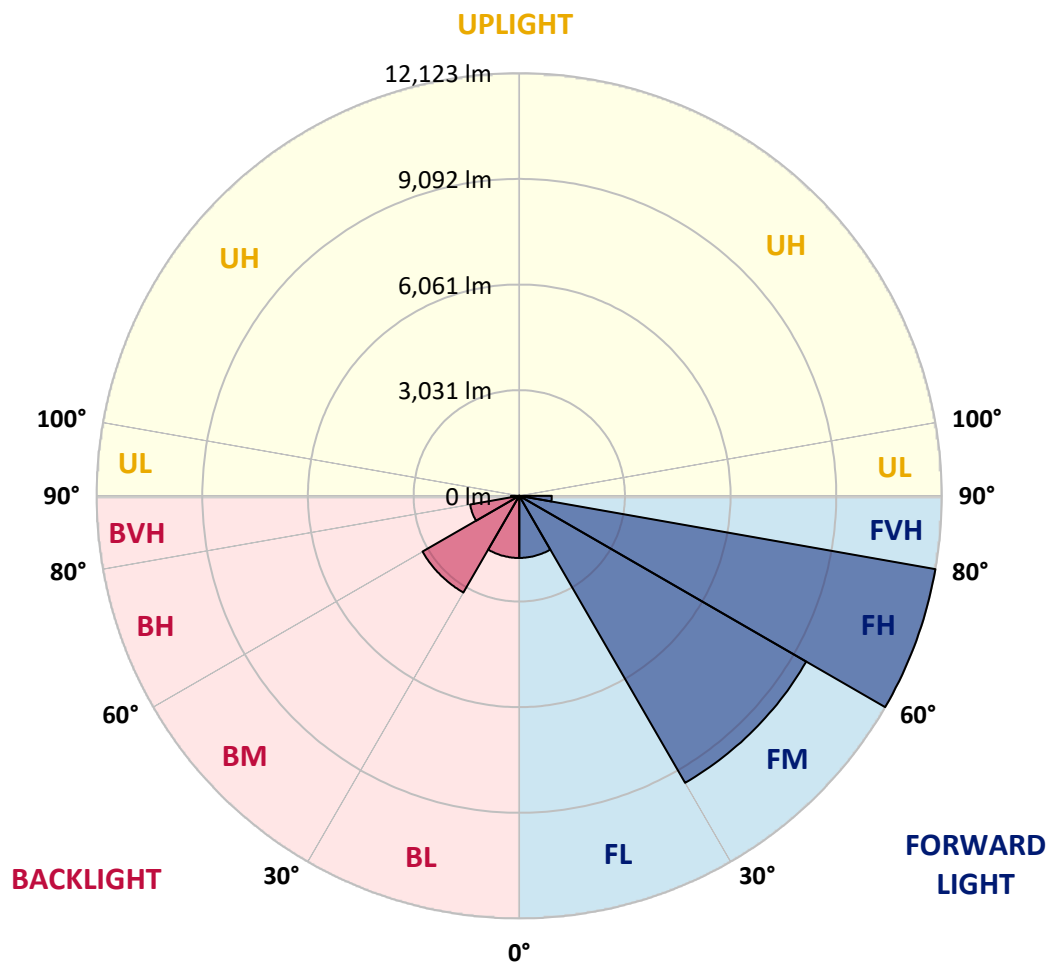
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1780.6	5.7			
FM	(30°-60°)	9507.7	30.7			
FH	(60°-80°)	12122.9	39.1			G5
FVH	(80°-90°)	933.9	3.0			G5
BL	(0°-30°)	1783.0	5.8	B3/2500		
BM	(30°-60°)	3203.8	10.3	B3/5000		
BH	(60°-80°)	1431.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	238.7	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°	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8
2.5°	4499.9	4482.8	4514.9	4519.2	4547.0	4557.7	4596.3	4656.2	4705.5	4762.3	4813.7
5°	4091.9	4080.1	4125.1	4157.2	4218.2	4243.9	4335.0	4462.4	4575.9	4704.4	4821.2
7.5°	3704.2	3697.8	3748.1	3820.9	3891.6	3927.0	4084.4	4269.6	4459.2	4666.9	4845.8
10°	3377.6	3375.5	3423.6	3495.4	3599.3	3638.9	3842.4	4086.5	4352.1	4638.0	4887.6
12.5°	3194.5	3202.0	3224.5	3284.4	3380.8	3420.4	3646.4	3933.4	4262.2	4628.4	4948.6
15°	3239.4	3251.2	3212.7	3210.5	3279.1	3310.1	3522.2	3824.2	4197.9	4644.5	5037.5
17.5°	3431.1	3433.3	3331.5	3267.3	3309.1	3325.1	3483.6	3762.0	4160.4	4680.9	5148.8
20°	3701.0	3695.6	3515.7	3408.6	3431.1	3435.4	3538.2	3763.1	4157.2	4744.1	5293.4
22.5°	4058.7	4019.1	3777.0	3631.4	3626.0	3619.6	3678.5	3842.4	4204.3	4846.9	5465.8
25°	4525.6	4488.1	4155.1	3955.9	3913.0	3897.0	3905.5	4011.6	4297.5	4957.2	5658.6
27.5°	5045.0	4979.6	4658.4	4376.7	4287.9	4265.4	4214.0	4250.4	4399.2	5063.2	5887.8
30°	5479.8	5444.4	5163.8	4829.7	4724.8	4692.6	4557.7	4518.1	4545.9	5207.7	6176.9
32.5°	5722.8	5699.3	5529.0	5259.2	5161.7	5116.7	4926.1	4846.9	4781.5	5435.8	6568.9
35°	6017.3	6002.3	5899.5	5703.6	5559.0	5511.9	5364.1	5281.6	5113.5	5749.6	7075.4
37.5°	6392.2	6376.1	6378.2	6219.7	6047.3	6003.4	5906.0	5819.2	5544.0	6161.9	7625.8
40°	6816.2	6785.2	6773.4	6765.9	6656.7	6632.0	6580.6	6462.8	6083.7	6654.5	8168.8
42.5°	7454.5	7344.2	7108.6	7197.5	7305.6	7292.8	7334.5	7165.3	6683.4	7237.1	8698.9
45°	8070.2	7889.3	7482.3	7501.6	7738.3	7810.0	8122.7	8002.8	7333.5	7875.3	9247.2
47.5°	8350.8	8213.7	7867.8	7868.9	8103.4	8252.3	8937.7	8852.0	8016.7	8600.3	9916.5
50°	8664.6	8527.5	8217.0	8333.7	8538.2	8696.7	9724.8	9680.9	8666.7	9393.9	10718.6
52.5°	9007.3	8774.9	8577.8	8786.7	9073.7	9257.9	10512.9	10393.0	9263.2	10192.8	11640.6
55°	9011.6	8948.4	9098.3	9251.4	9680.9	9906.8	11338.6	11021.6	9749.4	10977.7	12391.3
57.5°	9524.5	9421.7	9739.8	9810.4	10371.6	10626.5	12160.0	11568.8	10244.2	11579.6	12796.1
60°	10203.5	10115.6	10375.9	10562.2	11226.2	11566.7	13037.0	12131.1	10632.9	12033.6	12776.8
62.5°	11376.1	11276.5	11273.3	11534.6	12428.8	12825.0	14021.2	12682.6	10787.1	12123.6	12231.7
65°	13092.7	12934.2	12635.5	12759.7	14089.7	14484.9	15121.0	13082.0	10583.6	11641.7	10827.8
67.5°	14763.3	14758.0	14390.6	14645.5	16282.9	16599.9	16373.9	13121.6	9948.6	9963.6	8336.9
70°	16428.6	16450.0	16387.9	17274.6	19246.1	19575.9	17708.3	12589.4	8521.1	7195.3	4994.6
72.5°	17747.9	17742.5	18055.2	20341.6	23091.6	23017.8	18832.7	10976.6	6118.0	3884.1	2387.0
75°	16893.3	16707.0	17638.7	21860.1	25333.0	24972.1	17876.4	7656.9	3175.2	1768.0	1285.1
77.5°	11018.4	11195.1	12562.6	18058.5	22158.9	21719.8	13115.2	3572.5	1496.0	1159.8	931.7
80°	3990.1	4176.5	5882.4	10229.2	15266.6	15194.9	6458.5	1468.2	1012.0	876.0	678.9
82.5°	1372.9	1441.4	2320.6	4542.7	8619.6	8940.9	2429.9	834.2	735.7	621.1	464.8
85°	538.7	616.8	1061.3	2185.7	4347.8	4379.9	984.1	499.0	511.9	406.9	254.9
87.5°	204.5	248.4	507.6	1015.2	1985.4	1823.7	352.3	237.7	291.3	242.0	121.0
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°	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8	4845.8
2.5°	4853.3	4875.8	4922.9	4955.0	4989.3	4998.9	5003.2	5011.8	5020.3	5017.1	5018.2
5°	4883.3	4927.2	5003.2	5035.3	5050.3	5033.2	5000.0	4973.2	4953.9	4943.2	4940.0
7.5°	4932.5	4994.6	5076.0	5070.7	5036.4	4960.4	4874.7	4810.4	4756.9	4737.6	4726.9
10°	4997.9	5070.7	5127.4	5066.4	4966.8	4835.1	4706.6	4607.0	4526.7	4495.6	4490.3
12.5°	5081.4	5155.3	5166.0	5036.4	4871.5	4691.6	4517.0	4385.3	4265.4	4226.8	4218.2
15°	5189.5	5259.2	5192.8	4983.9	4753.7	4511.7	4285.7	4106.9	3980.5	3933.4	3916.3
17.5°	5303.1	5369.5	5198.1	4897.2	4599.5	4298.6	4014.8	3831.7	3687.1	3632.5	3626.0
20°	5439.1	5469.0	5175.6	4773.0	4387.4	4022.3	3723.5	3551.1	3474.0	3435.4	3431.1
22.5°	5607.2	5575.1	5124.2	4604.8	4118.7	3703.1	3460.1	3379.7	3360.5	3351.9	3355.1
25°	5785.0	5686.4	5048.2	4385.3	3779.2	3384.0	3267.3	3289.8	3315.5	3312.3	3312.3
27.5°	5980.9	5800.0	4931.5	4094.0	3403.3	3122.7	3136.6	3219.1	3257.7	3256.6	3255.5
30°	6232.6	5928.5	4782.6	3743.8	3052.0	2938.5	3023.1	3123.8	3176.3	3174.1	3175.2
32.5°	6542.1	6069.8	4580.2	3353.0	2798.2	2802.5	2900.0	2999.6	3060.6	3055.3	3056.3
35°	6904.0	6228.3	4306.1	2967.4	2630.1	2694.4	2771.5	2841.1	2898.9	2891.4	2883.9
37.5°	7298.1	6383.6	3942.0	2622.6	2493.0	2593.7	2658.0	2669.7	2696.5	2677.2	2663.3
40°	7672.9	6502.5	3472.9	2339.9	2354.9	2508.0	2549.8	2502.7	2454.5	2448.1	2428.8
42.5°	7999.6	6542.1	2998.5	2113.9	2209.3	2418.1	2443.8	2345.3	2258.5	2217.8	2200.7
45°	8344.4	6556.0	2556.2	1924.4	2069.0	2337.8	2365.6	2233.9	2111.8	2024.0	1995.1
47.5°	8795.2	6656.7	2212.5	1784.1	1961.9	2284.2	2323.8	2145.0	1986.5	1861.2	1834.4
50°	9385.3	6855.9	1933.0	1677.0	1892.3	2248.9	2293.9	2058.3	1883.7	1732.7	1705.9
52.5°	10040.7	7039.0	1707.0	1590.3	1824.8	2186.8	2255.3	1996.1	1787.3	1613.8	1584.9
55°	10499.0	6898.7	1525.0	1500.3	1737.0	2097.9	2201.8	1943.7	1649.2	1498.2	1472.5
57.5°	10586.8	6418.9	1386.8	1407.2	1631.0	1986.5	2119.3	1826.9	1574.2	1447.8	1421.1
60°	10347.0	5750.7	1284.0	1321.5	1517.5	1846.2	1965.1	1744.5	1502.5	1394.3	1371.8
62.5°	9744.0	5066.4	1208.0	1244.4	1411.4	1703.8	1868.7	1657.7	1429.6	1333.3	1310.8
65°	8526.4	4253.6	1135.1	1175.8	1312.9	1580.6	1782.0	1577.4	1357.9	1284.0	1262.6
67.5°	6436.1	3185.9	1066.6	1103.0	1225.1	1473.5	1687.7	1498.2	1288.3	1241.2	1215.5
70°	3789.9	1995.1	988.4	1027.0	1133.0	1362.2	1587.1	1411.4	1201.5	1180.1	1146.9
72.5°	1763.8	1200.5	899.5	937.0	1017.3	1213.3	1457.5	1297.9	1098.7	1051.6	1006.6
75°	1052.7	878.1	794.6	827.8	884.6	1054.8	1294.7	1182.3	1001.3	939.2	892.1
77.5°	787.1	671.4	678.9	714.3	760.3	923.1	1146.9	1091.2	926.3	878.1	846.0
80°	566.5	509.7	553.7	592.2	640.4	839.6	1098.7	1008.8	837.4	773.2	743.2
82.5°	378.0	366.2	416.6	456.2	503.3	734.6	1032.3	883.5	715.4	634.0	567.6
85°	208.8	220.6	280.6	297.7	338.4	517.2	846.0	710.0	538.7	433.7	414.4
87.5°	86.7	101.7	151.0	145.6	179.9	308.4	556.9	428.4	342.7	255.9	199.2
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)