

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: P317679

Luminaire Tested: **GAN-SA5B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24422 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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

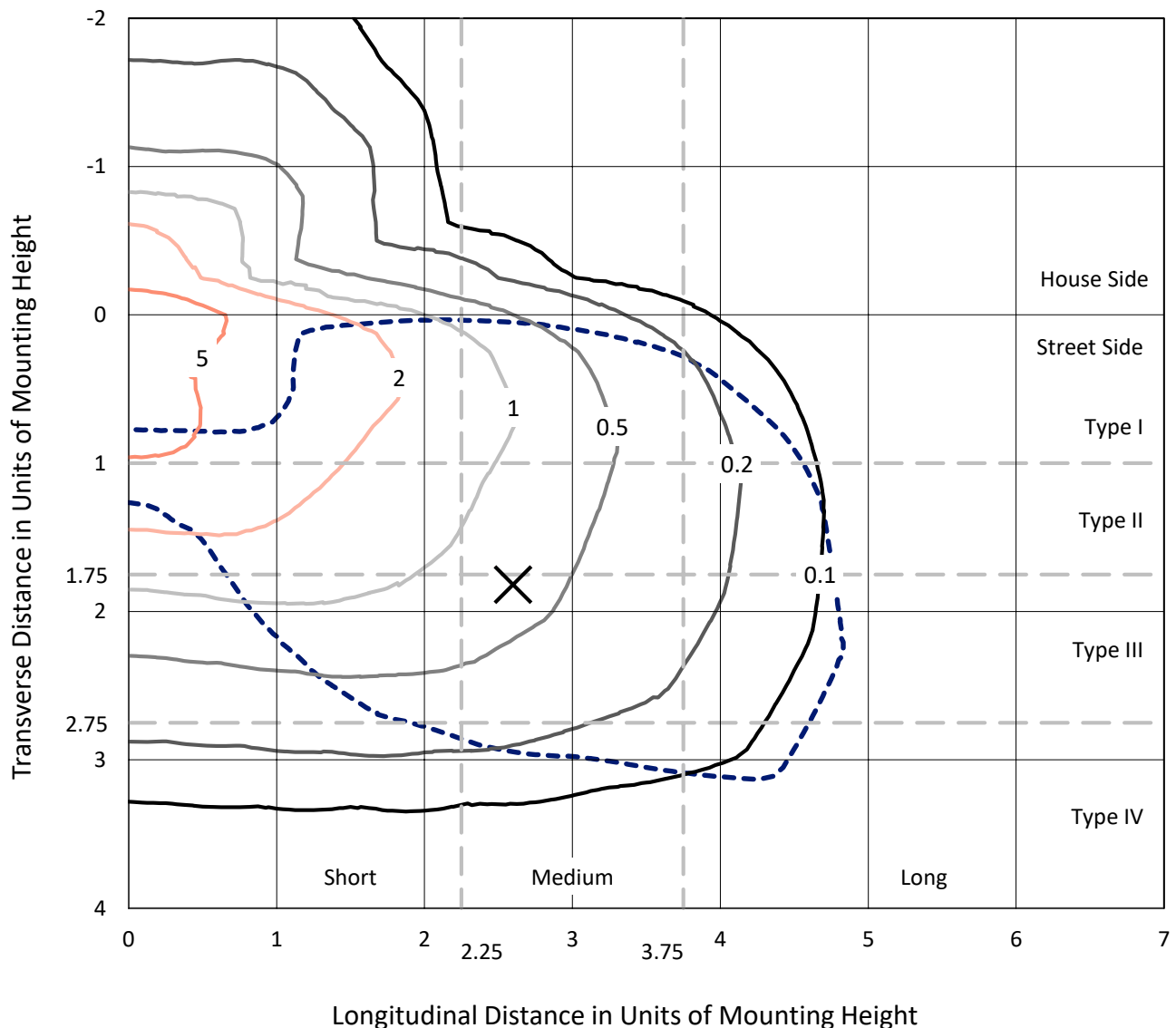


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Iso-Footcandle Lines of Horizontal Illumination

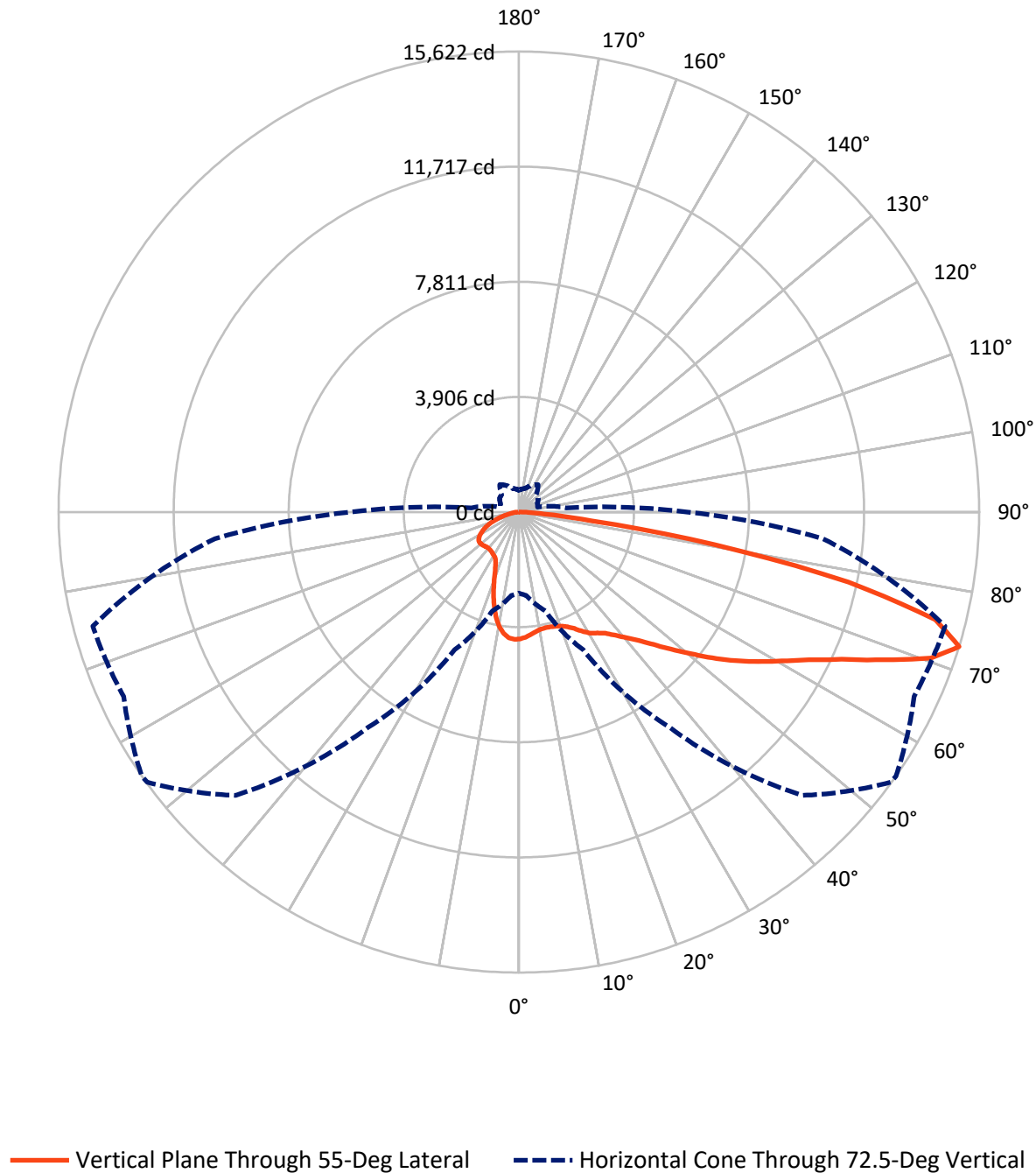
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4539.2	0.0	4539.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19882.7	0.0	19882.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	24422.0	0.0	24422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	1.6
10°-20°	1037.7	4.2
20°-30°	1711.0	7.0
30°-40°	2531.0	10.4
40°-50°	3532.7	14.5
50°-60°	4599.7	18.8
60°-70°	5652.8	23.1
70°-80°	4431.1	18.1
80°-90°	536.2	2.2
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°	24422.0	100.0
0°-180°	24422.0	100.0

Coefficient of Utilization



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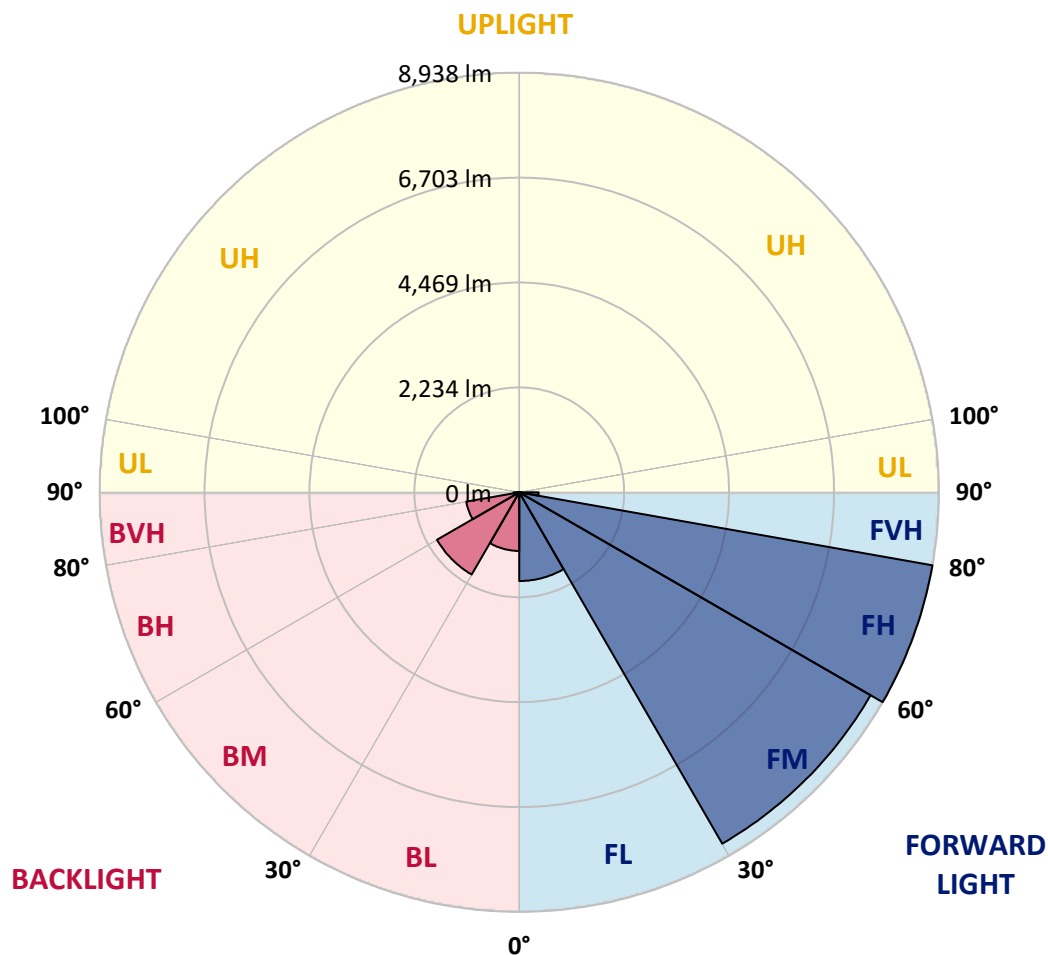
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1889.5	7.7			
FM	(30°-60°)	8641.0	35.4			
FH	(60°-80°)	8937.6	36.6			G4/12000
FVH	(80°-90°)	414.6	1.7			G3/500
BL	(0°-30°)	1248.9	5.1	B3/2500		
BM	(30°-60°)	2022.3	8.3	B2/2500		
BH	(60°-80°)	1146.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	121.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5
2.5°	4167.3	4157.4	4169.8	4187.1	4206.1	4231.6	4246.5	4253.1	4278.6	4288.5	4310.0
5°	3974.3	3969.3	3989.9	4019.6	4061.7	4121.1	4168.9	4178.0	4245.6	4293.5	4337.2
7.5°	3834.0	3834.0	3858.0	3893.4	3940.4	4020.5	4088.1	4100.5	4215.1	4318.2	4399.1
10°	3722.7	3726.8	3754.8	3796.9	3852.2	3937.1	4027.1	4041.1	4206.9	4376.0	4504.7
12.5°	3648.4	3658.3	3683.9	3721.9	3790.3	3893.4	4007.3	4026.2	4224.2	4458.5	4631.7
15°	3695.5	3712.0	3714.4	3730.1	3768.0	3880.2	4018.8	4038.6	4261.3	4542.6	4776.0
17.5°	3901.7	3907.4	3881.9	3848.9	3830.7	3902.5	4053.5	4074.1	4305.9	4625.9	4914.6
20°	4215.1	4211.8	4156.6	4067.5	3975.1	3986.6	4110.4	4131.8	4366.1	4699.3	5053.2
22.5°	4611.1	4599.5	4514.6	4350.4	4192.9	4126.9	4210.2	4228.3	4456.8	4804.1	5201.7
25°	5091.1	5065.6	4953.4	4733.2	4501.4	4331.4	4360.3	4377.6	4588.8	4921.2	5337.8
27.5°	5597.6	5572.1	5429.4	5162.9	4854.4	4589.6	4567.4	4582.2	4738.9	5007.8	5438.4
30°	6127.2	6100.0	5969.6	5671.0	5228.9	4856.9	4760.4	4766.1	4844.5	5054.9	5520.9
32.5°	6659.2	6633.7	6487.7	6141.2	5635.6	5143.9	4899.8	4892.4	4908.0	5103.5	5614.1
35°	7198.7	7208.6	7037.9	6654.3	6086.0	5463.2	5064.8	5049.1	5014.4	5203.3	5746.1
37.5°	7776.1	7769.5	7548.5	7147.6	6557.0	5809.6	5301.5	5299.0	5179.4	5392.2	5953.1
40°	8162.2	8166.3	8031.8	7652.4	7032.9	6193.2	5605.0	5599.3	5442.5	5675.2	6224.5
42.5°	8313.1	8340.3	8375.0	8134.1	7531.1	6637.8	5967.2	5958.9	5809.6	6081.0	6543.8
45°	8323.8	8378.3	8592.8	8562.2	8036.0	7146.7	6429.9	6406.8	6299.6	6620.5	6924.9
47.5°	8231.5	8287.6	8643.9	8817.1	8487.2	7683.7	6971.0	6952.9	6860.5	7295.2	7337.3
50°	8029.4	8083.0	8538.3	8941.7	8858.4	8200.1	7594.7	7546.8	7497.3	8074.7	7809.1
52.5°	7650.7	7753.9	8397.3	8971.4	9080.3	8658.7	8250.4	8219.1	8246.3	8897.1	8281.8
55°	6754.1	6869.6	8033.5	8946.6	9244.4	9044.0	8906.2	8904.6	9045.6	9760.0	8789.1
57.5°	6251.8	6333.4	7292.8	8904.6	9439.1	9426.7	9555.4	9571.1	9845.7	10699.5	9320.3
60°	5968.0	6053.8	6917.4	8748.7	9741.0	9921.6	10217.8	10249.1	10659.1	11739.7	9959.6
62.5°	5709.8	5803.8	6684.8	8431.1	10096.5	10629.4	11011.3	11039.3	11520.3	12808.7	10577.4
65°	5268.5	5374.9	6344.1	8222.4	10419.9	11552.4	12020.1	12039.1	12509.3	13928.9	11050.1
67.5°	4644.9	4742.2	5701.6	7761.3	10659.1	12673.4	13361.4	13372.1	13490.1	14720.0	11291.8
70°	3916.5	3953.6	4785.9	6809.4	10376.1	13721.9	14831.3	14833.8	14384.2	15226.4	11252.2
72.5°	2751.8	2839.2	3474.4	5154.7	8916.9	13594.0	15594.3	15622.4	14800.0	14970.7	10353.0
75°	1687.7	1780.1	2179.3	3123.8	5657.0	10691.2	14408.2	14602.8	14020.5	13348.2	8457.5
77.5°	1128.4	1163.1	1422.1	1821.3	2562.9	6151.1	11077.3	11443.5	11647.3	9734.4	5408.7
80°	629.4	695.4	942.8	1131.7	1140.0	2444.1	6641.9	6727.7	6480.2	3876.1	1668.7
82.5°	333.3	369.5	629.4	664.9	622.0	818.3	2475.5	2477.9	2070.4	1039.3	495.8
85°	258.2	288.7	431.4	405.8	317.6	362.9	816.6	861.2	704.4	425.6	161.7
87.5°	128.7	160.0	292.8	257.4	124.6	103.9	292.0	311.8	278.0	166.6	58.6
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°	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5	4307.5
2.5°	4318.2	4325.7	4334.7	4324.8	4321.5	4308.3	4286.1	4281.1	4269.6	4270.4	4277.0
5°	4356.2	4368.6	4363.6	4325.7	4280.3	4216.8	4150.8	4094.7	4057.6	4055.1	4052.6
7.5°	4428.8	4437.0	4398.3	4290.2	4163.2	4016.3	3877.8	3756.5	3683.1	3664.9	3660.8
10°	4542.6	4541.0	4434.5	4216.8	3963.5	3701.2	3478.5	3310.2	3212.1	3183.2	3175.8
12.5°	4669.6	4650.7	4446.9	4083.1	3681.4	3317.7	3035.6	2848.3	2746.0	2713.0	2704.8
15°	4800.8	4753.8	4416.4	3883.5	3335.0	2904.4	2608.3	2435.0	2379.8	2361.6	2358.3
17.5°	4922.9	4832.1	4329.0	3613.0	2939.9	2492.8	2261.8	2192.5	2205.7	2229.6	2230.5
20°	5042.5	4884.9	4188.7	3271.5	2523.3	2153.8	2075.4	2126.5	2189.2	2237.9	2244.5
22.5°	5160.4	4922.0	4008.1	2877.2	2150.5	1963.2	2018.5	2111.7	2183.5	2236.2	2245.3
25°	5259.4	4931.1	3759.0	2456.5	1891.4	1891.4	1991.3	2079.5	2150.5	2202.4	2211.5
27.5°	5295.7	4870.1	3407.6	2067.1	1761.1	1858.5	1953.3	2026.7	2086.9	2142.2	2152.1
30°	5309.7	4757.1	3001.7	1754.5	1707.5	1823.0	1902.2	1964.9	2021.8	2073.7	2082.8
32.5°	5312.2	4621.0	2571.1	1577.2	1670.4	1785.9	1838.7	1893.9	1955.0	1975.6	1978.9
35°	5327.9	4460.1	2117.5	1486.4	1635.7	1751.2	1793.3	1832.9	1733.9	1741.3	1747.9
37.5°	5373.3	4300.9	1738.0	1435.3	1613.5	1733.1	1783.4	1639.9	1562.3	1544.2	1541.7
40°	5458.2	4131.0	1456.7	1394.0	1605.2	1742.1	1719.9	1531.0	1397.3	1297.5	1282.7
42.5°	5576.2	3947.9	1276.9	1366.8	1611.0	1785.9	1631.6	1426.2	1204.3	1140.0	1131.7
45°	5709.0	3755.7	1179.6	1347.9	1630.8	1819.7	1613.5	1286.8	1114.4	1065.7	1061.6
47.5°	5837.7	3520.6	1129.3	1339.6	1658.0	1792.5	1536.7	1243.9	1071.5	1045.9	1048.4
50°	5985.3	3308.6	1098.7	1330.5	1681.9	1775.1	1450.1	1221.6	1055.0	1086.4	1119.4
52.5°	6109.9	3089.2	1071.5	1312.4	1691.0	1744.6	1427.9	1225.8	1055.0	1115.2	1146.6
55°	6257.5	2923.4	1040.2	1274.4	1673.7	1658.0	1412.2	1250.5	1067.4	1029.4	1032.7
57.5°	6448.1	2868.9	1005.5	1215.0	1615.9	1531.8	1404.8	1274.4	1060.0	1036.0	1044.3
60°	6712.0	2926.7	991.5	1137.5	1526.0	1432.8	1405.6	1262.1	1008.0	966.8	967.6
62.5°	6963.6	2991.0	990.7	1088.8	1415.5	1344.6	1386.6	1221.6	981.6	957.7	966.8
65°	7046.1	2925.8	951.1	1034.4	1290.9	1239.0	1352.0	1178.8	961.8	925.5	923.9
67.5°	6935.6	2723.7	871.1	946.1	1148.2	1116.1	1306.6	1127.6	930.5	900.8	895.8
70°	6607.3	2272.5	772.1	829.8	985.7	977.5	1234.8	1068.2	888.4	862.8	841.4
72.5°	5723.8	1619.2	650.8	690.4	802.6	829.0	1135.9	990.7	829.0	773.7	740.7
75°	4701.0	1198.5	534.5	542.8	609.6	681.3	999.8	899.9	758.9	664.9	639.3
77.5°	2878.8	733.3	425.6	428.9	437.2	543.6	823.2	798.5	669.8	554.3	536.2
80°	932.1	400.1	307.7	323.4	298.6	398.4	636.8	679.7	574.9	463.6	443.8
82.5°	354.7	233.4	207.9	218.6	207.0	267.3	464.4	544.4	471.0	381.1	310.2
85°	171.6	132.0	122.9	137.8	127.9	136.9	297.0	400.9	357.2	248.3	231.0
87.5°	61.0	58.6	47.0	63.5	54.4	48.7	90.7	202.1	235.9	170.7	152.6
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)