

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: P319180

Luminaire Tested: **GAN-SA6D-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33876 lumens
Efficiency: N/A
Efficacy: 88.7 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): 382
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



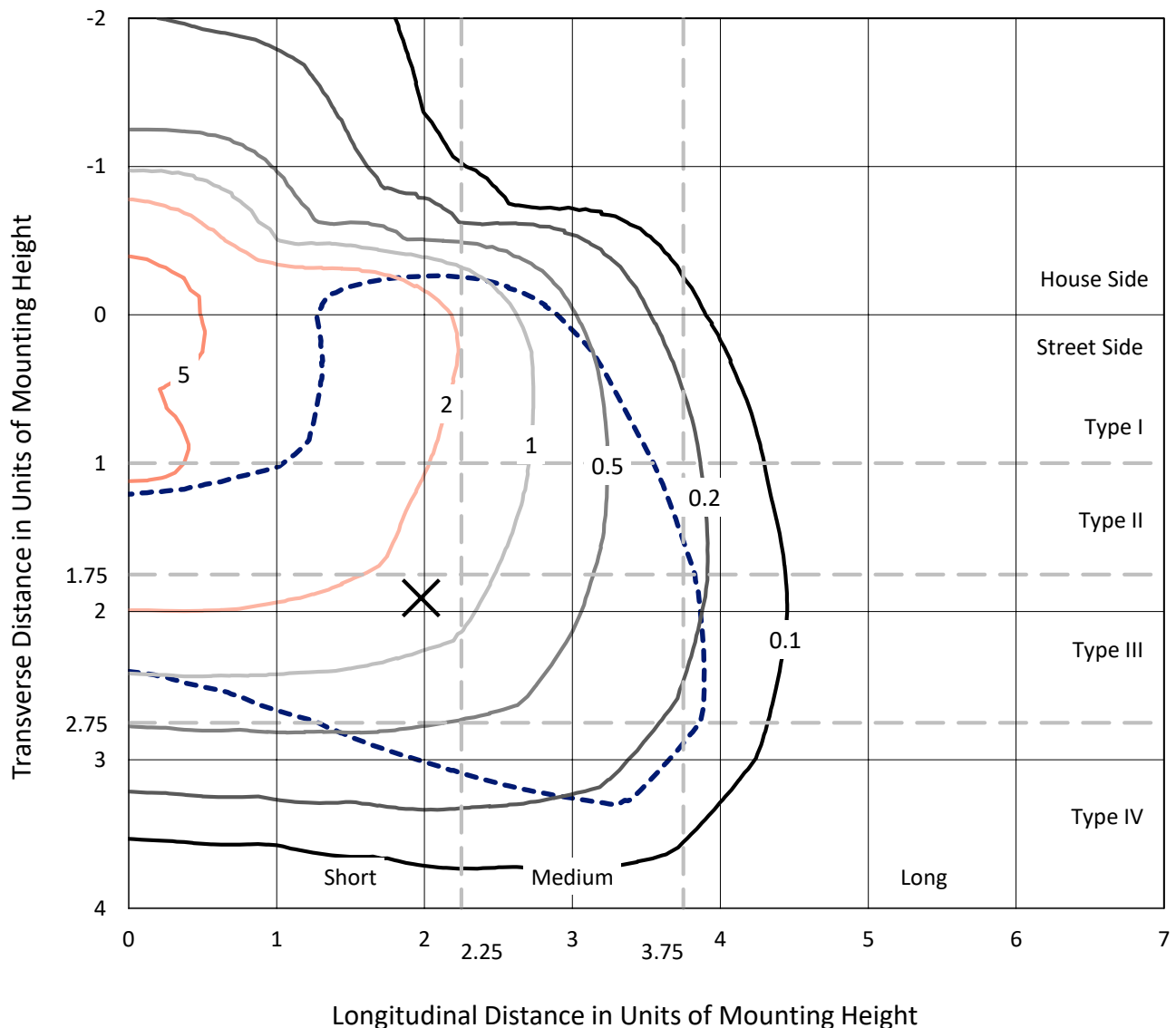
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

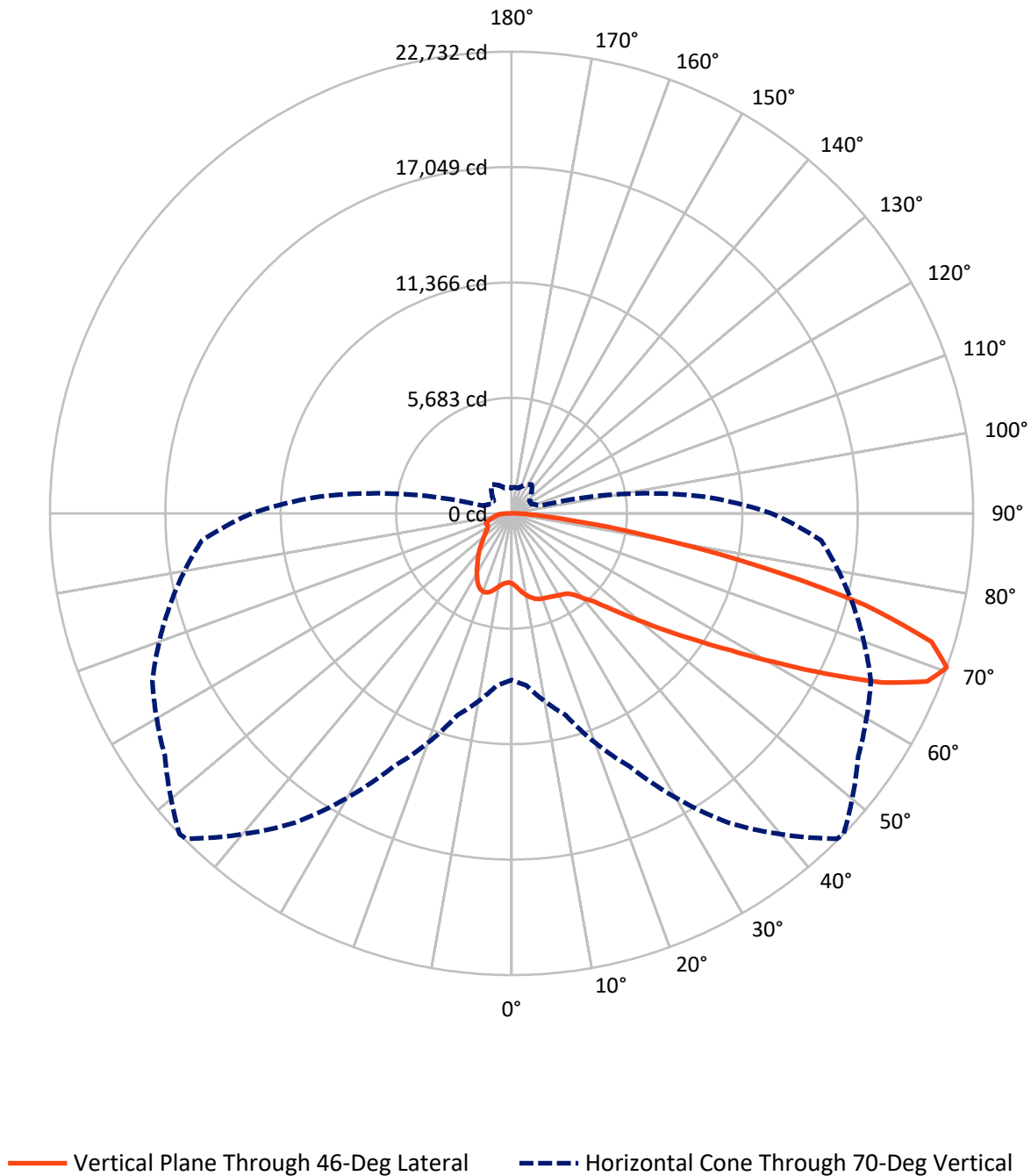


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7764.3	0.0	7764.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	26111.7	0.0	26111.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	33876.0	0.0	33876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	1.0
10°-20°	1172.2	3.5
20°-30°	1954.5	5.8
30°-40°	2773.6	8.2
40°-50°	4079.8	12.0
50°-60°	6909.1	20.4
60°-70°	9807.4	29.0
70°-80°	5958.1	17.6
80°-90°	869.5	2.6
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°	33876.0	100.0
0°-180°	33876.0	100.0

Coefficient of Utilization



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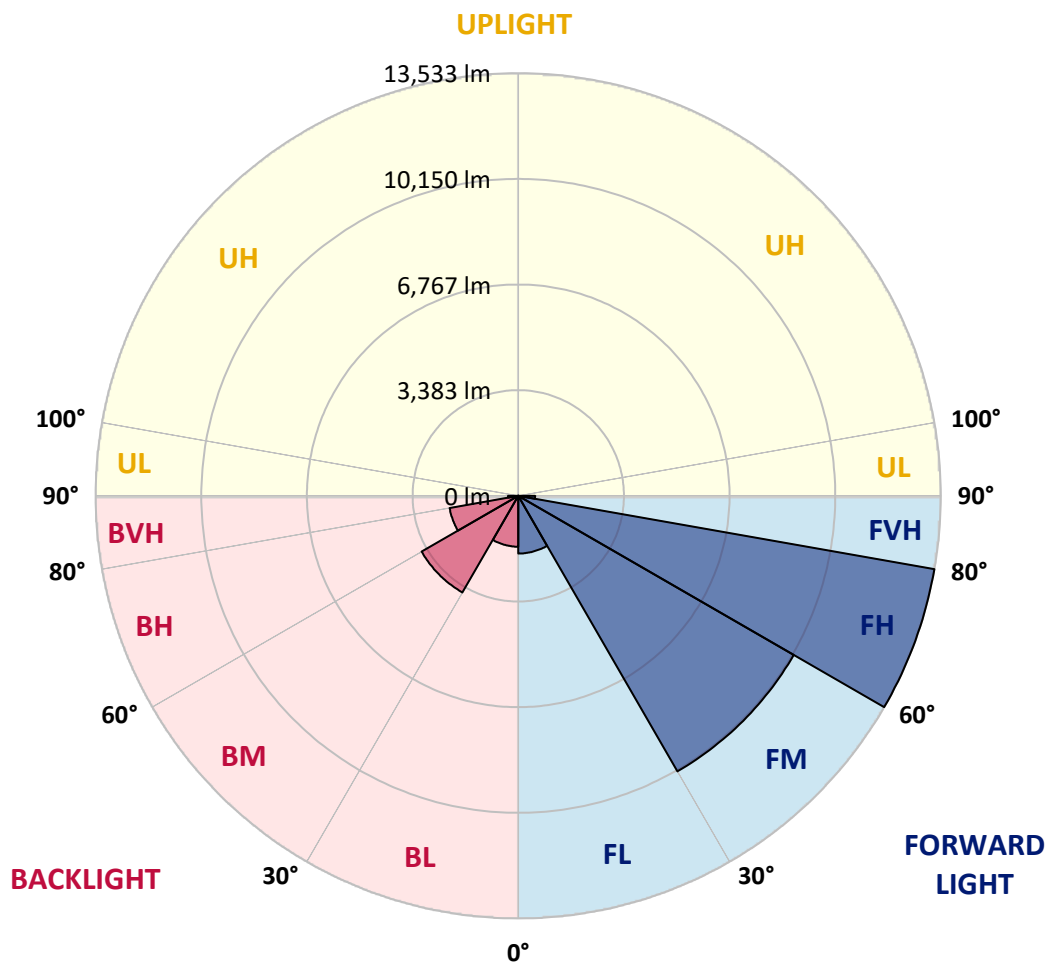
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.4	5.5			
FM	(30°-60°)	10188.4	30.1			
FH	(60°-80°)	13533.3	39.9			G5
FVH	(80°-90°)	541.6	1.6			G4/750
BL	(0°-30°)	1630.1	4.8	B3/2500		
BM	(30°-60°)	3574.1	10.6	B3/5000		
BH	(60°-80°)	2232.2	6.6	B3/2500		G3/2500
BVH	(80°-90°)	327.9	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3
2.5°	3624.0	3626.4	3631.0	3619.4	3586.9	3577.7	3574.2	3540.6	3518.5	3486.1	3458.3
5°	3913.9	3916.2	3909.2	3876.8	3804.9	3751.6	3746.9	3670.4	3600.9	3526.7	3471.0
7.5°	4216.5	4219.9	4197.9	4136.5	4035.6	3942.9	3937.1	3832.7	3727.2	3614.8	3531.3
10°	4484.3	4470.3	4434.4	4348.6	4229.2	4115.6	4111.0	4002.0	3880.3	3744.6	3633.3
12.5°	4662.8	4651.2	4604.8	4500.5	4369.5	4265.1	4255.9	4155.0	4036.8	3888.4	3755.0
15°	4761.3	4769.5	4706.8	4588.6	4461.1	4373.0	4364.8	4293.0	4187.5	4037.9	3884.9
17.5°	4774.1	4781.0	4720.8	4603.7	4499.3	4439.0	4435.6	4388.0	4311.5	4167.8	4007.8
20°	4699.9	4704.5	4654.7	4558.5	4490.1	4471.5	4470.3	4449.5	4392.7	4265.1	4109.8
22.5°	4592.1	4595.6	4559.6	4490.1	4466.9	4495.9	4504.0	4495.9	4455.3	4335.9	4189.8
25°	4565.4	4563.1	4526.0	4455.3	4475.0	4536.4	4546.9	4550.3	4522.5	4418.2	4291.8
27.5°	4694.1	4686.0	4615.3	4501.6	4514.4	4588.6	4602.5	4636.1	4618.7	4527.2	4407.7
30°	5066.2	5052.3	4907.4	4677.9	4615.3	4653.5	4670.9	4724.2	4727.7	4651.2	4561.9
32.5°	5694.6	5677.2	5417.5	5007.1	4785.7	4719.6	4735.8	4815.8	4858.7	4799.6	4703.4
35°	6488.7	6469.0	6128.2	5567.1	5070.9	4846.0	4857.6	4921.3	5007.1	4923.6	4796.1
37.5°	7316.5	7268.9	6940.9	6225.6	5524.2	5116.1	5116.1	5124.2	5164.8	4990.9	4905.1
40°	8139.6	8092.1	7795.3	7000.0	6110.8	5541.6	5514.9	5335.2	5302.7	5153.2	5124.2
42.5°	8904.8	8890.8	8715.8	7875.3	6799.4	5960.1	5923.0	5618.1	5625.0	5532.3	5533.4
45°	9718.6	9718.6	9576.0	8758.7	7601.7	6632.5	6595.4	6146.7	6216.3	6173.4	6276.6
47.5°	10382.9	10403.8	10384.0	9679.2	8534.9	7486.9	7419.7	6879.4	7074.2	7221.4	7521.7
50°	11061.1	11093.6	11097.0	10688.9	9662.9	8502.5	8426.0	7852.1	8286.8	8708.8	9298.9
52.5°	12045.4	12118.4	11827.4	11696.4	11044.9	9708.2	9632.8	9103.0	9828.7	10421.1	11437.9
55°	12957.7	12894.0	12686.5	12767.6	12524.2	11080.8	11024.0	10559.1	11546.8	12316.6	13637.1
57.5°	13451.6	13447.0	13655.7	14003.4	14119.4	12773.4	12725.9	12273.7	13484.1	14062.6	15701.9
60°	14031.3	14039.4	14556.4	15345.9	15823.6	14881.1	14860.2	14517.0	15365.7	15692.6	17321.4
62.5°	14112.4	14258.5	15148.9	16507.6	17418.8	17343.5	17389.8	16537.7	17049.0	16993.3	18530.6
65°	13179.2	13371.6	14983.1	16858.9	19004.8	20036.6	20079.5	18570.0	18376.4	18105.1	18963.0
67.5°	11266.3	11551.5	13302.1	16094.9	19527.6	22027.1	22087.4	20145.5	19477.8	18481.9	17922.0
70°	8198.7	8515.2	10277.4	13746.1	18595.5	22663.6	22732.0	20842.3	19519.5	17409.5	15299.6
72.5°	4952.6	5200.7	6653.3	10119.7	15694.9	21504.3	21626.0	19958.9	17821.1	14746.6	11297.6
75°	2174.9	2337.2	3217.1	5831.4	11236.1	17792.1	17944.0	17083.8	14479.9	10716.8	6677.7
77.5°	926.3	972.7	1319.3	2533.1	6351.9	12157.8	12366.5	12482.4	9824.1	5831.4	2821.8
80°	577.3	595.9	746.6	1146.6	2972.5	6828.4	7053.3	7344.3	4878.4	2143.6	985.4
82.5°	351.3	372.1	496.2	693.3	1547.7	3095.4	3203.2	3408.4	1893.2	926.3	510.1
85°	211.0	226.1	303.7	438.2	881.1	1217.3	1216.1	1344.8	891.5	595.9	269.0
87.5°	100.9	112.5	162.3	227.2	444.0	456.8	427.8	484.6	541.4	390.7	135.6
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°	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3	3451.3
2.5°	3449.0	3444.3	3429.3	3417.7	3415.4	3408.4	3402.6	3406.1	3410.7	3411.9	3411.9
5°	3447.8	3435.1	3415.4	3407.2	3417.7	3431.6	3449.0	3472.2	3486.1	3496.5	3503.5
7.5°	3503.5	3479.1	3457.1	3452.5	3473.3	3510.4	3549.8	3598.5	3632.2	3655.3	3660.0
10°	3596.2	3566.1	3544.0	3548.7	3585.8	3639.1	3694.8	3757.4	3808.4	3839.7	3842.0
12.5°	3702.9	3673.9	3653.0	3672.7	3734.2	3799.1	3857.1	3911.6	3957.9	3989.2	3989.2
15°	3825.8	3804.9	3780.5	3825.8	3909.2	3967.2	3991.5	4018.2	4043.7	4066.9	4062.3
17.5°	3944.0	3924.3	3911.6	3964.9	4051.8	4078.5	4062.3	4042.6	4042.6	4055.3	4057.6
20°	4046.0	4028.6	4036.8	4088.9	4134.1	4106.3	4046.0	3983.4	3957.9	3964.9	3971.8
22.5°	4135.3	4127.2	4151.5	4175.9	4143.4	4046.0	3934.7	3850.1	3818.8	3816.5	3818.8
25°	4239.6	4238.5	4268.6	4224.6	4080.8	3901.1	3751.6	3669.3	3651.9	3665.8	3689.0
27.5°	4369.5	4382.2	4397.3	4236.2	3953.3	3682.0	3530.1	3473.3	3490.7	3524.3	3546.4
30°	4535.3	4570.0	4537.6	4207.2	3770.1	3431.6	3286.7	3270.4	3318.0	3365.5	3388.7
32.5°	4696.4	4750.9	4672.1	4131.8	3533.6	3166.1	3053.7	3049.0	3107.0	3153.4	3185.8
35°	4826.3	4934.1	4772.9	3982.3	3260.0	2921.5	2839.2	2807.9	2828.7	2883.2	2920.3
37.5°	4995.5	5175.2	4842.5	3753.9	2963.2	2719.8	2623.5	2551.7	2533.1	2555.1	2573.7
40°	5305.1	5542.7	4874.9	3435.1	2673.4	2518.0	2420.7	2315.2	2242.1	2188.8	2190.0
42.5°	5810.5	6021.5	4854.1	3047.9	2405.6	2321.0	2210.8	2089.1	1970.8	1850.3	1841.0
45°	6631.3	6733.3	4791.5	2637.5	2170.3	2114.6	2011.4	1889.7	1732.0	1595.2	1582.5
47.5°	7944.8	7718.8	4694.1	2279.2	1962.7	1939.5	1844.5	1704.2	1537.3	1427.1	1417.9
50°	9736.0	9141.3	4646.6	1994.0	1779.6	1786.5	1708.8	1560.4	1402.8	1321.6	1312.4
52.5°	11878.4	10797.9	4738.1	1773.8	1632.3	1656.7	1598.7	1459.6	1327.4	1263.7	1254.4
55°	14100.8	12513.7	4836.7	1613.8	1493.2	1540.7	1521.0	1406.3	1286.8	1227.7	1219.6
57.5°	16003.3	13794.8	4639.6	1483.9	1369.2	1443.4	1460.7	1372.6	1266.0	1212.7	1203.4
60°	17200.9	14310.7	4122.5	1362.2	1270.6	1365.7	1426.0	1363.4	1274.1	1269.5	1262.5
62.5°	17768.9	14265.5	3347.0	1266.0	1209.2	1332.1	1451.5	1415.5	1366.8	1408.6	1412.1
65°	17513.9	13583.8	2492.5	1202.2	1165.1	1344.8	1528.0	1514.1	1393.5	1435.2	1441.0
67.5°	15835.2	11957.2	1845.6	1146.6	1116.4	1380.8	1667.1	1546.5	1341.3	1371.5	1352.9
70°	12798.9	9479.8	1423.6	1084.0	1066.6	1376.1	1729.7	1526.8	1284.5	1291.5	1241.6
72.5°	8825.9	6464.4	1158.2	1026.0	994.7	1254.4	1685.7	1478.1	1237.0	1183.7	1117.6
75°	4799.6	3469.9	984.3	965.7	868.3	1101.4	1604.5	1443.4	1194.1	1123.4	1086.3
77.5°	1888.5	1439.9	854.4	883.4	759.4	972.7	1514.1	1377.3	1135.0	1042.2	1023.7
80°	770.9	735.0	708.3	764.0	652.7	850.9	1405.1	1299.6	1064.3	966.9	929.8
82.5°	437.1	456.8	550.7	602.8	529.8	783.7	1352.9	1237.0	979.6	866.0	822.0
85°	223.7	267.8	383.7	432.4	389.5	666.6	1246.3	1082.8	786.0	663.1	666.6
87.5°	107.8	149.6	242.3	271.3	252.7	482.3	930.9	784.9	612.1	484.6	469.5
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)