

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: P319351

Luminaire Tested: **GAN-SA7A-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32292 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

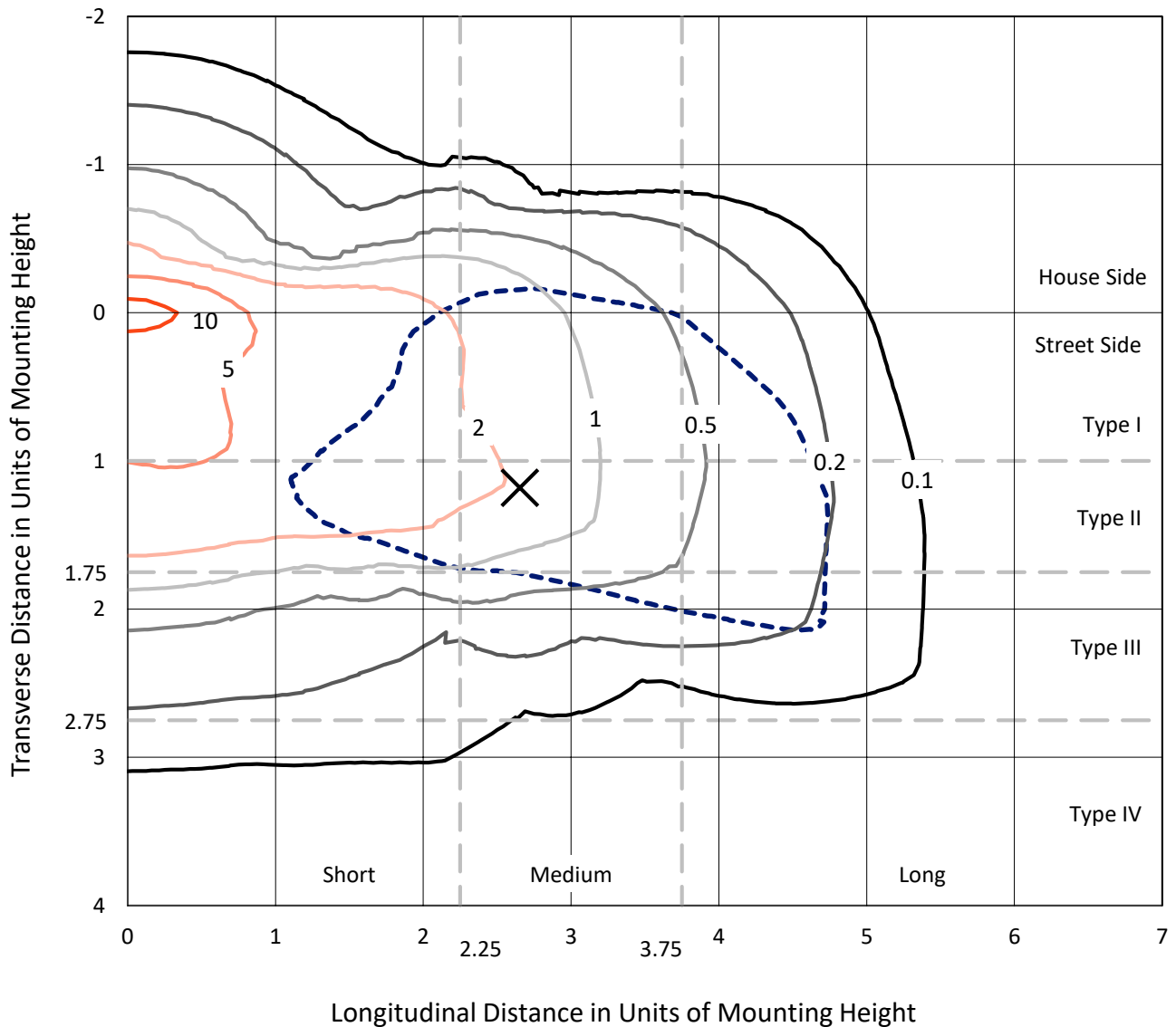
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

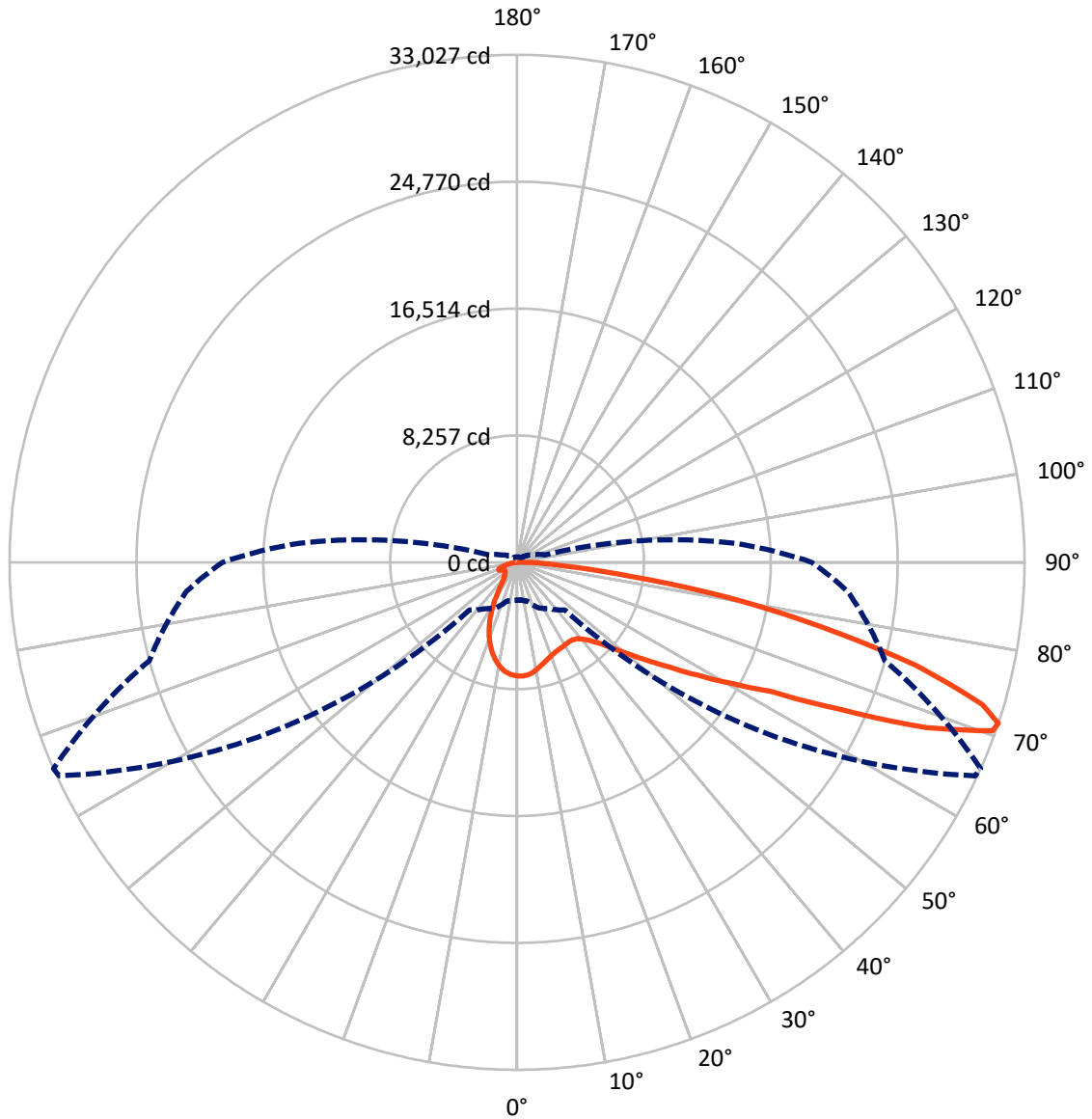
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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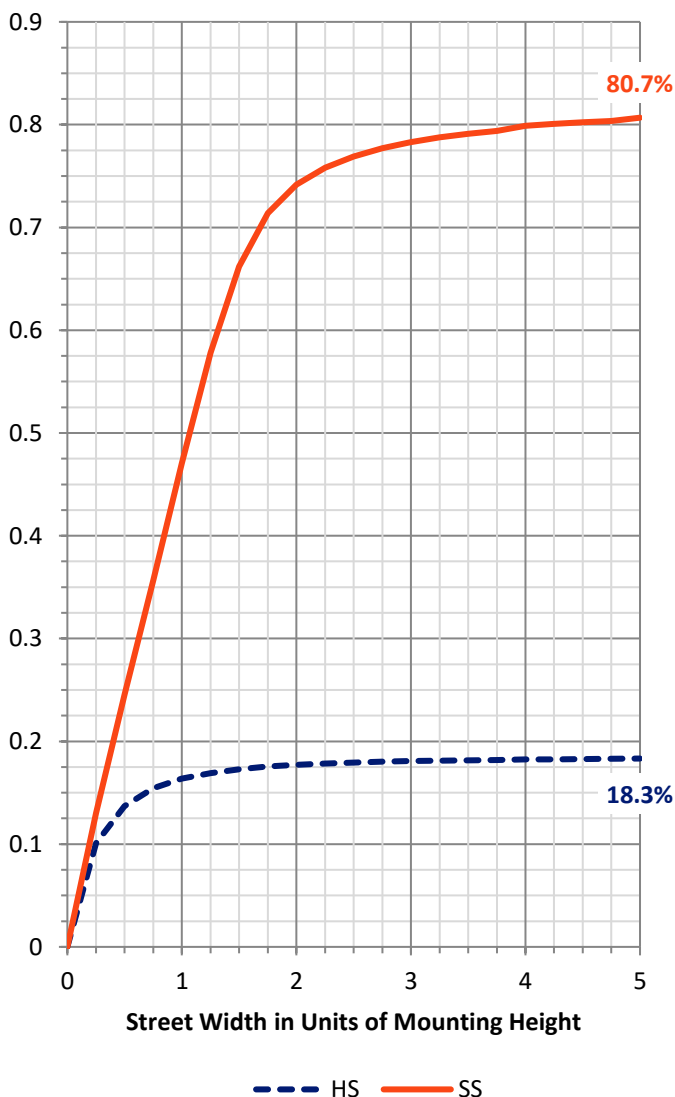
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5984.6	0.0	5984.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	26307.4	0.0	26307.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	32292.0	0.0	32292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.2	2.0
10°-20°	1561.7	4.8
20°-30°	2097.8	6.5
30°-40°	2759.6	8.5
40°-50°	4014.6	12.4
50°-60°	6271.2	19.4
60°-70°	7855.7	24.3
70°-80°	5992.1	18.6
80°-90°	1088.1	3.4
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°	32292.0	100.0
0°-180°	32292.0	100.0

Coefficient of Utilization

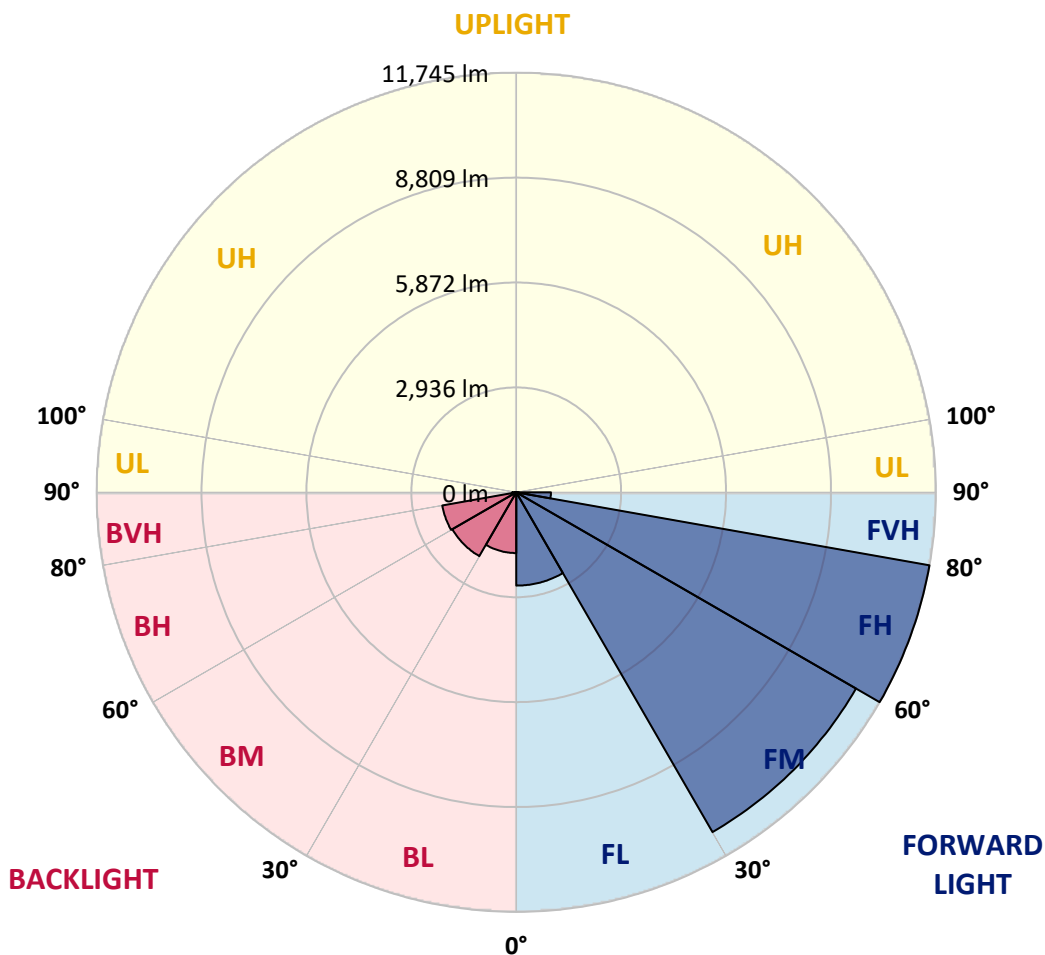


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.3	8.1			
FM (30°-60°)	10980.9	34.0			
FH (60°-80°)	11744.9	36.4			G4/12000
FVH (80°-90°)	970.3	3.0			G5
BL (0°-30°)	1699.5	5.3	B3/2500		
BM (30°-60°)	2064.5	6.4	B2/2500		
BH (60°-80°)	2102.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	117.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5
2.5°	7260.3	7249.2	7282.6	7317.2	7330.6	7352.9	7386.3	7405.3	7404.2	7407.5	7396.4
5°	6778.7	6764.2	6831.1	6885.7	6990.5	7108.7	7252.5	7355.1	7357.3	7415.3	7430.9
7.5°	6322.7	6312.7	6389.6	6477.7	6599.2	6779.8	7012.8	7233.6	7247.0	7404.2	7458.8
10°	5957.0	5954.8	6029.5	6125.4	6266.9	6468.7	6736.3	7059.7	7079.7	7350.6	7463.3
12.5°	5671.6	5676.0	5740.7	5850.0	5999.4	6210.1	6500.0	6864.5	6896.9	7265.9	7437.6
15°	5460.9	5478.7	5531.1	5641.5	5788.6	6002.7	6300.4	6683.9	6733.0	7171.1	7423.1
17.5°	5340.5	5360.5	5397.3	5488.7	5627.0	5833.2	6115.3	6535.6	6580.2	7098.7	7424.2
20°	5304.8	5321.5	5342.7	5398.4	5515.5	5702.8	5969.3	6401.9	6449.8	7040.7	7435.4
22.5°	5375.0	5387.3	5389.5	5385.0	5456.4	5609.1	5863.3	6303.7	6355.0	7002.8	7443.2
25°	5525.5	5542.3	5530.0	5488.7	5465.3	5559.0	5808.7	6239.1	6290.4	6974.9	7427.6
27.5°	5751.9	5754.1	5744.1	5690.5	5580.2	5564.5	5792.0	6201.2	6250.2	6942.6	7395.2
30°	6059.6	6074.1	6056.2	5983.8	5803.1	5653.7	5812.1	6164.4	6209.0	6901.3	7342.8
32.5°	6419.7	6455.4	6454.3	6378.4	6119.8	5853.3	5894.6	6142.1	6176.6	6857.9	7279.3
35°	6793.2	6842.2	6933.7	6901.3	6581.4	6168.8	6052.9	6177.8	6201.2	6852.3	7234.7
37.5°	7181.2	7230.2	7418.7	7505.6	7131.0	6620.4	6302.6	6303.7	6314.9	6920.3	7231.3
40°	7587.0	7639.4	7922.6	8148.9	7843.4	7192.3	6705.1	6566.9	6554.6	7087.5	7297.1
42.5°	8155.6	8202.4	8542.5	8831.3	8633.9	7924.8	7261.5	6972.7	6947.0	7415.3	7507.8
45°	8874.7	8914.9	9276.1	9584.9	9483.5	8761.0	7960.5	7531.3	7526.8	7961.6	7934.9
47.5°	9729.9	9761.1	10085.5	10384.3	10421.1	9723.2	8839.1	8393.1	8320.6	8710.8	8596.0
50°	10620.7	10655.3	10876.0	11197.1	11470.3	11010.9	9969.6	9448.9	9351.9	9699.8	9532.5
52.5°	11210.5	11256.2	11448.0	11854.9	12649.8	12422.4	11306.4	10728.8	10581.7	10898.3	10770.1
55°	10947.4	11049.9	11343.2	11995.4	13593.1	14578.7	12955.3	12221.7	12055.6	12318.7	12242.9
57.5°	9751.1	9891.5	10291.8	11298.6	13725.7	16478.5	15448.3	13979.9	13862.9	13787.1	13821.6
60°	7564.7	7699.6	8195.8	9508.0	12801.5	17865.4	19200.0	16147.3	15977.9	15261.0	15292.2
62.5°	5353.8	5285.8	5625.9	6585.8	10402.2	18028.2	23469.0	19046.1	18488.7	16817.4	16680.3
65°	4082.8	4067.2	4220.0	4525.4	6300.4	16080.4	26012.1	23918.3	23047.6	18648.1	18324.8
67.5°	3354.8	3326.9	3477.4	3922.3	4057.2	10374.3	26067.9	29570.9	28715.8	20927.0	20226.8
70°	2758.3	2727.1	2867.6	3441.7	3749.5	5261.3	21939.3	32881.1	32835.4	23812.4	21662.8
71°	2472.9	2450.6	2618.9	3256.7	3683.7	4385.0	18942.4	32890.0	33027.2	24789.1	21578.1
72.5°	2013.5	2021.3	2199.7	2898.8	3634.6	3872.1	13922.0	31357.0	31646.9	25720.0	20807.7
75°	1337.9	1344.6	1578.7	2229.8	3524.3	3788.5	7651.7	26312.0	26845.0	25162.6	18987.0
77.5°	898.6	896.4	1055.8	1529.7	3070.5	3788.5	4486.4	19679.4	20264.7	20021.7	14637.7
80°	618.8	614.3	726.9	1055.8	2324.6	3834.2	3468.5	13791.5	13968.8	10812.5	5949.2
82.5°	379.1	382.4	475.0	745.9	1582.1	3450.7	3274.5	7520.1	7327.2	3032.6	1486.2
85°	217.4	216.3	303.3	505.1	1015.7	2912.2	3193.1	3236.6	2969.0	913.1	537.4
87.5°	78.0	83.6	162.8	279.8	582.0	2028.0	2709.2	1683.5	1517.4	412.5	243.1
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°	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5	7397.5
2.5°	7388.6	7395.2	7387.4	7342.8	7304.9	7243.6	7209.1	7161.1	7146.6	7139.9	7157.8
5°	7416.4	7418.7	7352.9	7235.8	7104.2	6949.3	6837.8	6700.6	6636.0	6608.1	6625.9
7.5°	7442.1	7432.0	7288.2	7064.1	6821.1	6551.3	6311.5	6091.9	5963.7	5911.3	5915.7
10°	7445.4	7403.0	7172.3	6825.5	6448.7	6052.9	5685.0	5346.0	5132.0	4992.6	5035.0
12.5°	7410.9	7339.5	7001.7	6516.7	5993.8	5454.2	4956.9	4448.5	4143.0	4001.4	4005.9
15°	7384.1	7254.8	6792.1	6153.2	5450.8	4736.2	4057.2	3459.6	3134.0	2989.1	2921.1
17.5°	7361.8	7163.3	6549.0	5744.1	4809.8	3903.3	3087.2	2554.3	2375.9	2333.5	2315.7
20°	7330.6	7066.3	6278.1	5270.2	4079.5	2971.3	2254.4	1991.2	1992.4	2041.4	2048.1
22.5°	7287.1	6956.0	5989.3	4738.4	3295.7	2164.1	1767.1	1691.3	1768.3	1861.9	1878.6
25°	7222.4	6825.5	5668.2	4150.8	2513.0	1663.5	1509.6	1506.3	1599.9	1698.0	1712.5
27.5°	7131.0	6654.9	5311.5	3519.8	1851.9	1413.7	1352.4	1375.8	1444.9	1516.3	1521.9
30°	7008.4	6456.5	4917.9	2854.2	1451.6	1258.7	1252.1	1273.2	1315.6	1365.8	1370.2
32.5°	6873.5	6254.7	4497.6	2209.8	1243.1	1175.1	1181.8	1191.8	1211.9	1232.0	1236.4
35°	6750.8	6048.4	4067.2	1679.1	1143.9	1120.5	1116.0	1113.8	1116.0	1109.3	1110.5
37.5°	6671.7	5877.8	3619.0	1336.8	1087.0	1072.5	1059.2	1042.4	1023.5	1012.3	1014.6
40°	6642.7	5750.7	3165.2	1155.1	1040.2	1030.2	1004.5	968.9	946.6	939.9	939.9
42.5°	6720.7	5685.0	2727.1	1063.6	1001.2	984.5	942.1	900.9	884.1	883.0	881.9
45°	6959.3	5711.7	2310.1	1013.5	965.5	933.2	877.4	842.9	831.7	834.0	832.8
47.5°	7387.4	5880.1	1953.3	980.0	929.8	887.5	825.0	797.2	783.8	783.8	784.9
50°	8115.5	6273.6	1669.0	952.1	899.7	845.1	787.1	752.6	734.7	733.6	733.6
52.5°	9175.8	6978.3	1491.8	928.7	866.3	807.2	749.2	705.7	684.6	680.1	677.9
55°	10504.7	7988.4	1442.7	913.1	821.7	765.9	703.5	660.0	636.6	626.6	625.5
57.5°	11990.9	9217.0	1539.7	894.2	776.0	716.9	653.3	612.1	587.6	575.3	574.2
60°	13495.0	10558.3	1935.5	867.4	738.1	663.4	602.1	564.1	539.6	526.2	524.0
62.5°	15001.2	11972.0	2743.8	865.2	711.3	612.1	549.7	517.3	493.9	479.4	476.1
65°	16700.3	13519.5	3662.5	924.3	702.4	565.3	496.1	470.5	450.4	437.0	435.9
67.5°	18651.4	15266.6	3574.4	1045.8	732.5	522.9	446.0	425.9	411.4	400.3	399.1
70°	19566.8	14993.4	2222.0	1131.6	774.9	481.6	398.0	383.5	372.4	364.6	361.2
71°	19183.3	14236.4	1863.0	1121.6	770.4	463.8	379.1	367.9	356.8	350.1	346.7
72.5°	18137.5	12983.2	1554.2	1043.6	720.2	431.5	354.5	343.4	333.4	325.6	323.3
75°	16275.6	11595.1	1244.2	834.0	574.2	364.6	311.1	298.8	291.0	286.5	282.1
77.5°	11964.2	8274.9	962.2	658.9	422.6	297.7	265.4	256.4	248.6	241.9	238.6
80°	4583.4	3205.4	647.8	491.7	309.9	235.2	214.1	209.6	201.8	197.3	197.3
82.5°	1234.2	957.7	345.6	297.7	207.4	171.7	163.9	161.7	155.0	146.1	147.2
85°	499.5	422.6	194.0	163.9	127.1	101.5	110.4	111.5	103.7	92.5	93.7
87.5°	219.6	179.5	108.1	72.5	55.7	39.0	50.2	50.2	45.7	37.9	34.6
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)