

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: P321620

Luminaire Tested: **GAN-SA6D-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35691 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

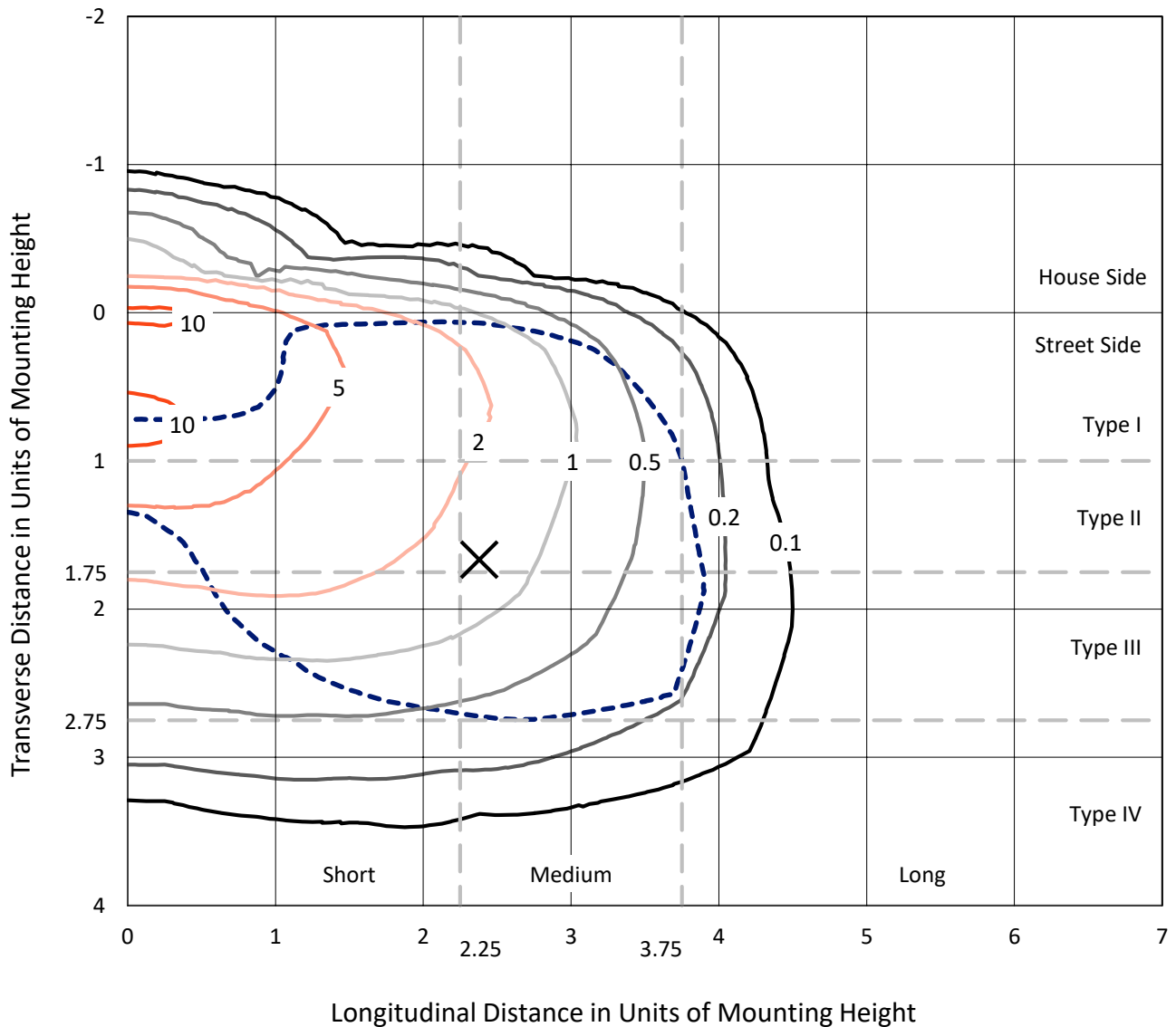
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

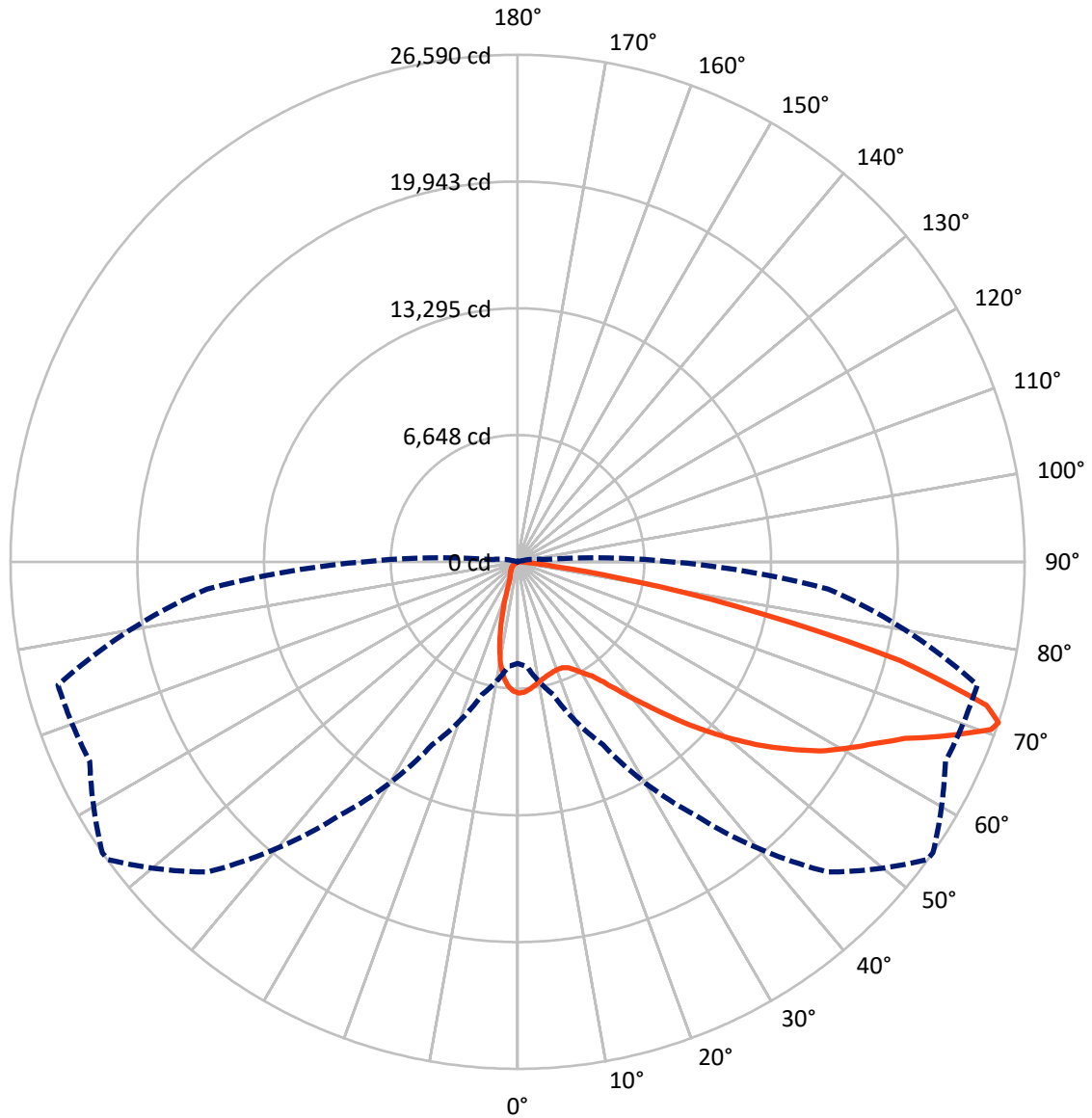
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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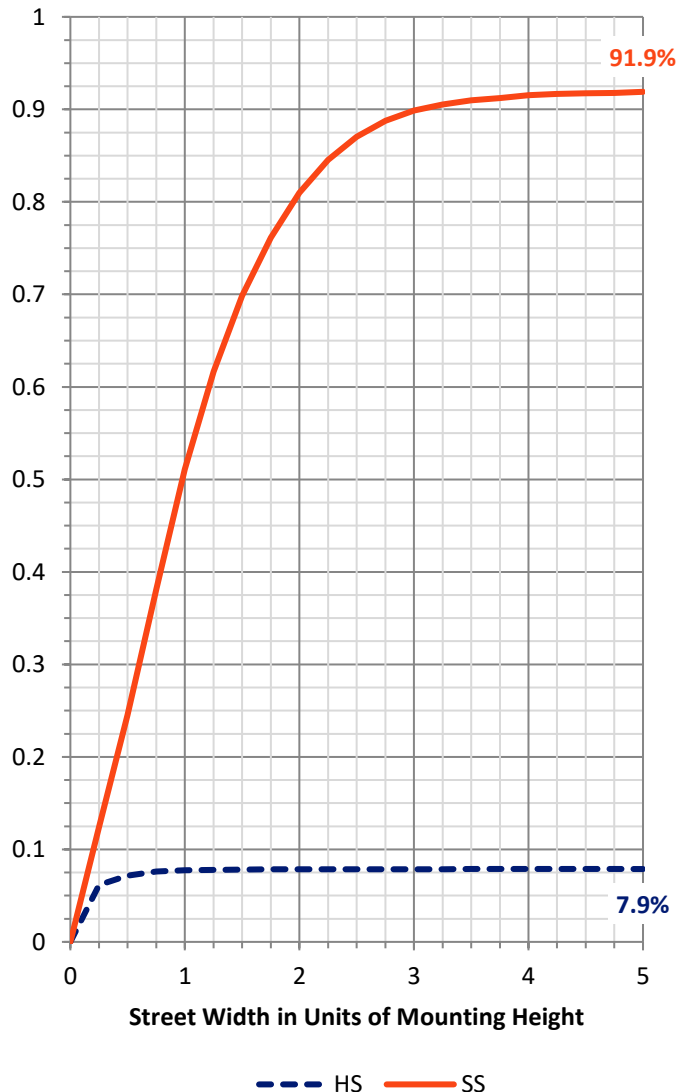
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2825.7	0.0	2825.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	32865.2	0.0	32865.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	35691.0	0.0	35691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.9	1.6
10°-20°	1324.9	3.7
20°-30°	2129.2	6.0
30°-40°	3617.6	10.1
40°-50°	5615.0	15.7
50°-60°	7549.2	21.2
60°-70°	9235.2	25.9
70°-80°	5399.6	15.1
80°-90°	233.4	0.7
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°	35691.0	100.0
0°-180°	35691.0	100.0

Coefficient of Utilization

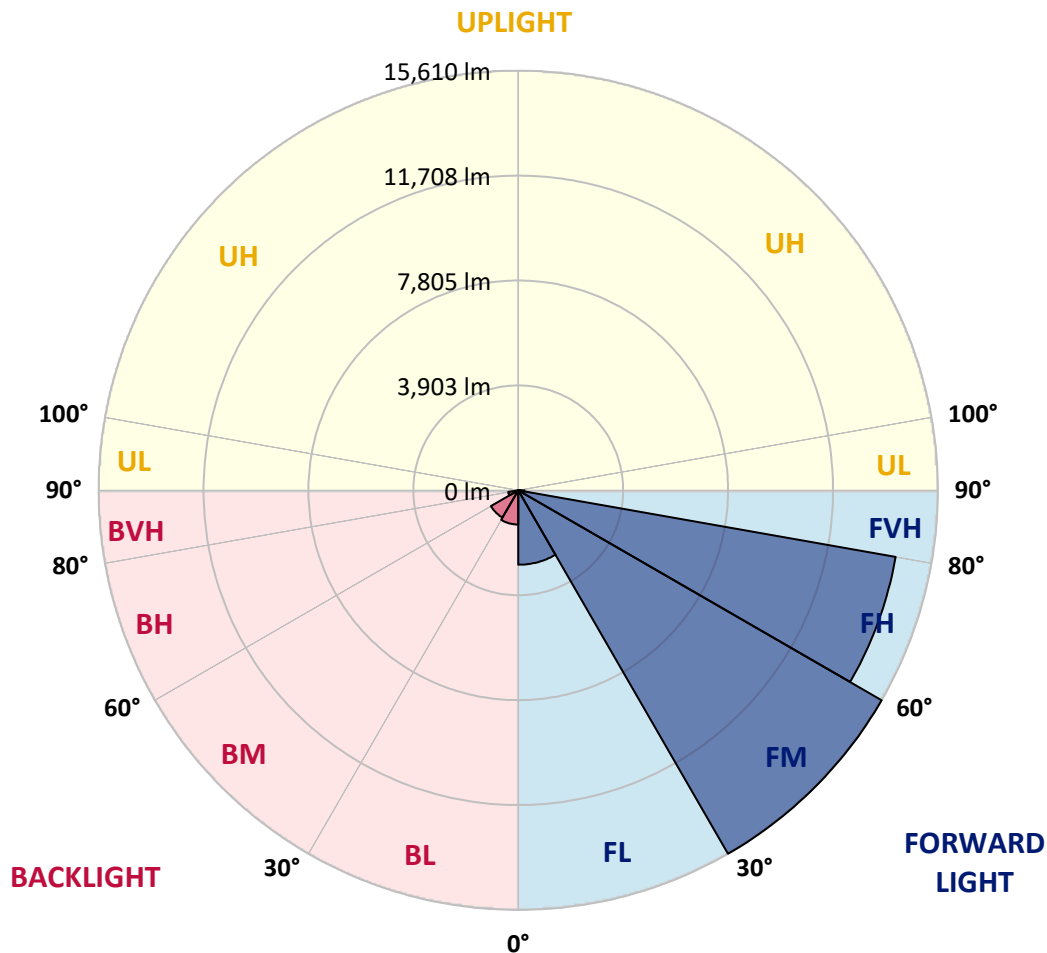


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2769.1	7.8			
FM (30°-60°)	15610.2	43.7			
FH (60°-80°)	14256.2	39.9			G5
FVH (80°-90°)	229.7	0.6			G3/500
BL (0°-30°)	1271.9	3.6	B3/2500		
BM (30°-60°)	1171.6	3.3	B2/2500		
BH (60°-80°)	378.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1
2.5°	6681.2	6689.2	6718.1	6730.9	6761.3	6812.6	6838.3	6839.9	6881.5	6897.6	6910.4
5°	6208.4	6256.5	6304.6	6355.9	6448.8	6572.2	6694.0	6705.2	6839.9	6939.2	6992.1
7.5°	5801.4	5844.7	5902.4	5984.1	6115.5	6309.4	6512.9	6537.0	6791.8	7017.8	7136.3
10°	5383.1	5418.4	5501.7	5621.9	5803.0	6062.6	6336.7	6376.7	6748.5	7123.5	7331.9
12.5°	4936.0	4956.8	5057.8	5230.9	5496.9	5827.0	6187.6	6240.5	6721.3	7245.3	7562.6
15°	4596.2	4605.9	4702.0	4881.5	5186.0	5615.5	6072.2	6136.3	6727.7	7391.2	7814.2
17.5°	4509.7	4514.5	4565.8	4689.2	4958.4	5426.4	5980.9	6059.4	6746.9	7533.8	8067.5
20°	4860.7	4827.0	4774.1	4754.9	4870.3	5312.6	5926.4	6014.5	6772.6	7660.4	8295.0
22.5°	5823.8	5724.5	5504.9	5211.6	5033.7	5320.6	5940.8	6029.0	6854.3	7815.8	8557.8
25°	7253.3	7115.5	6742.1	6165.2	5610.7	5551.4	6061.0	6150.8	7012.9	8001.7	8809.5
27.5°	8880.0	8743.7	8287.0	7463.3	6517.7	6008.1	6336.7	6420.0	7248.5	8166.8	9001.8
30°	10437.7	10399.2	9860.8	8924.8	7658.8	6748.5	6692.4	6762.9	7423.2	8266.2	9154.0
32.5°	11758.2	11697.3	11264.6	10354.4	8964.9	7638.0	7110.7	7131.5	7554.6	8394.4	9352.7
35°	12982.6	12907.3	12527.5	11666.9	10304.7	8724.5	7754.9	7724.5	7841.5	8652.4	9641.2
37.5°	14051.5	14120.4	13699.0	12880.0	11506.6	9854.3	8623.6	8532.2	8290.2	9072.3	10059.5
40°	14945.8	14945.8	14726.2	14043.5	12804.7	11022.6	9605.9	9485.7	8964.9	9719.7	10589.9
42.5°	15267.9	15336.8	15418.5	15032.3	13966.6	12237.4	10700.5	10575.5	9915.2	10638.0	11259.8
45°	15287.1	15396.1	15814.4	15812.8	15016.3	13444.2	11934.5	11875.2	11133.2	11817.5	12090.0
47.5°	15016.3	15152.5	15841.6	16232.7	15848.0	14567.6	13283.9	13210.2	12564.3	13263.1	12958.6
50°	14598.0	14748.7	15550.0	16397.7	16413.8	15545.2	14705.4	14594.8	14139.7	14915.3	13856.0
52.5°	13849.6	14141.3	15288.7	16436.2	16785.6	16389.7	16058.0	16009.9	15902.5	16506.7	14570.8
55°	12248.6	12572.3	14633.3	16449.0	17130.1	17138.1	17325.6	17338.5	17554.8	17993.9	15102.8
57.5°	11492.2	11674.9	13489.0	16509.9	17641.3	17987.5	18617.3	18716.7	19051.6	19405.8	15710.2
60°	11016.2	11232.6	12924.9	16426.6	18444.2	19101.3	19814.5	19848.1	20207.1	20862.6	16532.4
62.5°	10636.4	10849.6	12569.1	16106.1	19346.5	20441.1	20984.4	20987.6	21256.8	22598.2	17466.7
65°	9698.9	9878.4	11849.6	15745.5	19942.7	21766.4	22343.4	22322.5	22542.1	24428.3	18551.6
67.5°	8343.1	8480.9	10380.0	14378.5	19718.3	22971.6	24394.7	24325.8	24059.7	26010.1	18977.9
70°	6450.4	6500.1	8181.2	11982.6	17615.7	23434.7	26377.1	26341.8	24990.8	25726.4	17415.4
71°	5331.8	5495.3	7210.1	10575.5	16207.0	23006.8	26569.4	26590.2	24756.9	24954.0	16340.0
72.5°	3096.2	3235.6	5226.1	8121.9	13759.9	21221.5	25572.6	25723.2	23663.9	22697.5	13957.0
75°	663.5	709.9	1937.5	3931.2	7569.0	14873.7	20184.7	20721.5	19287.2	15441.0	8412.0
77.5°	461.5	498.4	830.1	1783.7	2501.6	7349.5	12538.7	13144.5	11522.6	5803.0	2692.4
80°	365.4	407.1	647.4	881.4	676.3	2370.2	5873.5	6243.7	3843.0	1294.9	453.5
82.5°	203.5	242.0	504.8	476.0	259.6	450.3	1644.3	1859.0	769.2	261.2	107.4
85°	59.3	72.1	325.3	346.2	110.6	86.5	280.5	347.8	145.8	68.9	48.1
87.5°	0.0	0.0	157.1	133.0	32.1	12.8	25.6	28.8	28.8	28.8	32.1
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°	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1	6883.1
2.5°	6910.4	6921.6	6881.5	6828.6	6772.6	6703.6	6631.5	6575.4	6573.8	6546.6	6519.3
5°	6995.3	6988.9	6878.3	6710.1	6511.3	6304.6	6107.5	5884.7	5811.0	5719.7	5689.2
7.5°	7152.4	7107.5	6873.5	6504.9	6069.0	5636.3	5189.2	4738.9	4546.6	4373.5	4343.0
10°	7349.5	7264.6	6843.1	6197.2	5397.5	4599.4	3924.8	3312.6	3043.3	2836.6	2827.0
12.5°	7554.6	7424.8	6758.1	5732.5	4517.7	3395.9	2618.6	2016.1	1791.7	1647.5	1660.3
15°	7769.4	7575.5	6575.4	5105.9	3516.1	2304.5	1609.0	1254.8	1165.1	1128.2	1137.8
17.5°	7988.9	7679.6	6320.6	4351.0	2527.3	1487.2	1113.8	1014.4	1014.4	1022.5	1025.7
20°	8179.6	7735.7	5945.6	3504.9	1713.2	1083.4	974.4	960.0	968.0	980.8	982.4
22.5°	8368.7	7738.9	5456.8	2647.5	1198.7	948.7	927.9	921.5	926.3	940.7	942.3
25°	8522.6	7700.5	4844.6	1883.0	956.7	894.2	884.6	881.4	884.6	902.3	902.3
27.5°	8585.1	7561.0	4097.8	1323.7	857.4	833.3	830.1	833.3	838.2	851.0	852.6
30°	8591.5	7317.4	3283.7	958.4	777.3	751.6	758.0	769.2	764.4	761.2	764.4
32.5°	8607.5	7035.4	2490.4	788.5	709.9	669.9	661.9	661.9	642.6	631.4	625.0
35°	8660.4	6703.6	1806.1	708.3	641.0	594.6	564.1	528.9	492.0	472.8	468.0
37.5°	8743.7	6355.9	1293.3	655.5	580.1	527.3	469.6	407.1	354.2	339.7	339.7
40°	8896.0	5996.9	956.7	613.8	532.1	466.4	379.8	298.1	250.0	242.0	242.0
42.5°	9136.4	5618.7	762.8	576.9	490.4	403.9	290.1	216.4	181.1	176.3	174.7
45°	9386.4	5202.0	666.7	541.7	445.5	331.7	214.7	160.3	139.4	134.6	134.6
47.5°	9636.4	4758.1	620.2	508.0	402.3	258.0	160.3	126.6	117.0	117.0	118.6
50°	9847.9	4294.9	586.5	471.2	346.2	195.5	126.6	107.4	104.2	110.6	112.2
52.5°	9900.8	3839.8	544.9	424.7	277.2	149.0	104.2	94.6	94.6	94.6	94.6
55°	9868.8	3487.2	490.4	367.0	205.1	118.6	89.7	83.3	81.7	81.7	81.7
57.5°	9977.7	3278.9	392.6	285.3	147.4	96.2	78.5	73.7	70.5	68.9	68.9
60°	10197.3	3142.7	280.5	205.1	110.6	80.1	67.3	62.5	57.7	54.5	54.5
62.5°	10489.0	3024.1	208.3	152.2	84.9	64.1	56.1	51.3	44.9	41.7	41.7
65°	10713.3	2812.6	158.7	113.8	64.1	51.3	43.3	41.7	32.1	28.8	27.2
67.5°	10370.4	2347.8	128.2	83.3	48.1	40.1	33.7	32.1	19.2	16.0	16.0
70°	8894.4	1634.6	102.6	60.9	35.3	32.1	27.2	20.8	14.4	12.8	12.8
71°	8065.9	1365.4	93.0	51.3	30.4	30.4	25.6	17.6	12.8	11.2	11.2
72.5°	6700.4	969.6	78.5	40.1	27.2	32.1	27.2	16.0	12.8	11.2	9.6
75°	3889.5	405.5	54.5	27.2	20.8	38.5	35.3	14.4	9.6	8.0	8.0
77.5°	1169.9	149.0	30.4	17.6	16.0	33.7	40.1	12.8	4.8	1.6	1.6
80°	213.1	64.1	19.2	11.2	11.2	20.8	30.4	6.4	0.0	0.0	0.0
82.5°	75.3	32.1	11.2	6.4	4.8	9.6	14.4	0.0	0.0	0.0	0.0
85°	43.3	22.4	6.4	3.2	0.0	1.6	3.2	0.0	0.0	0.0	0.0
87.5°	28.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)