

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: P323541

Luminaire Tested: **GAN-SA7D-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46887 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

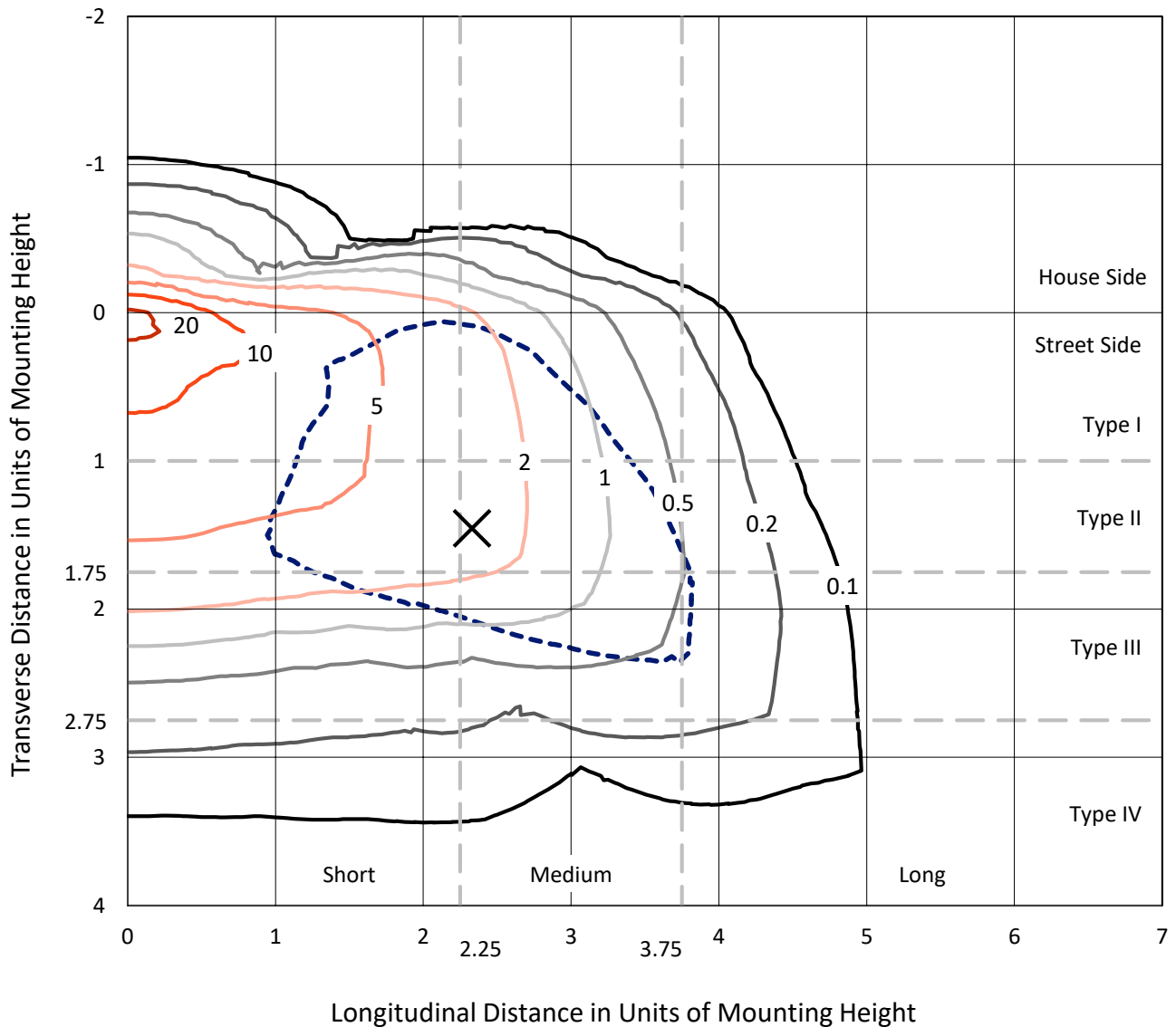
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323541
 CATALOG NUMBER: GAN-SA7D-740-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

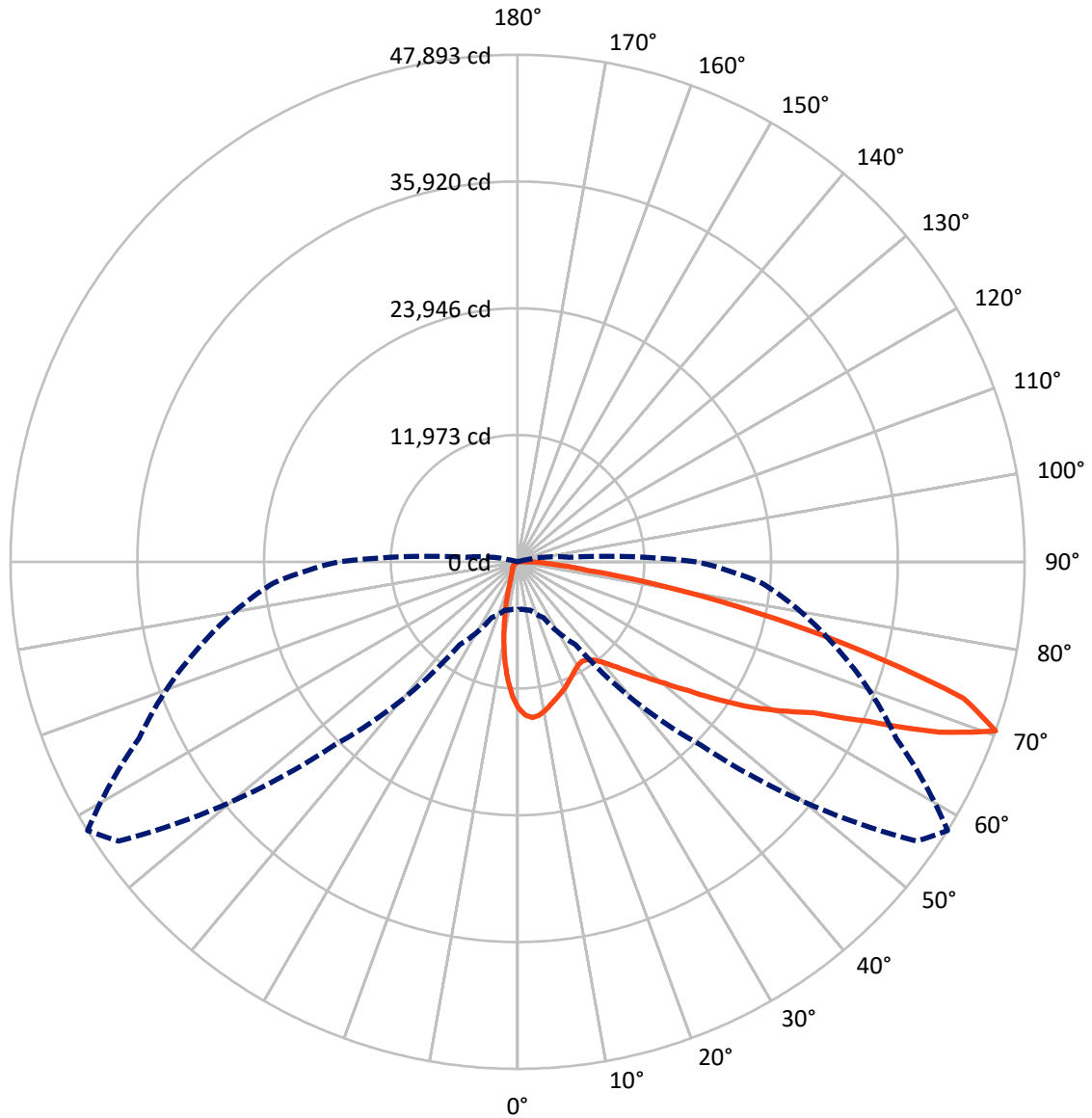
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P323541
CATALOG NUMBER: GAN-SA7D-740-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P323541
 CATALOG NUMBER: GAN-SA7D-740-U-SL3-HSS

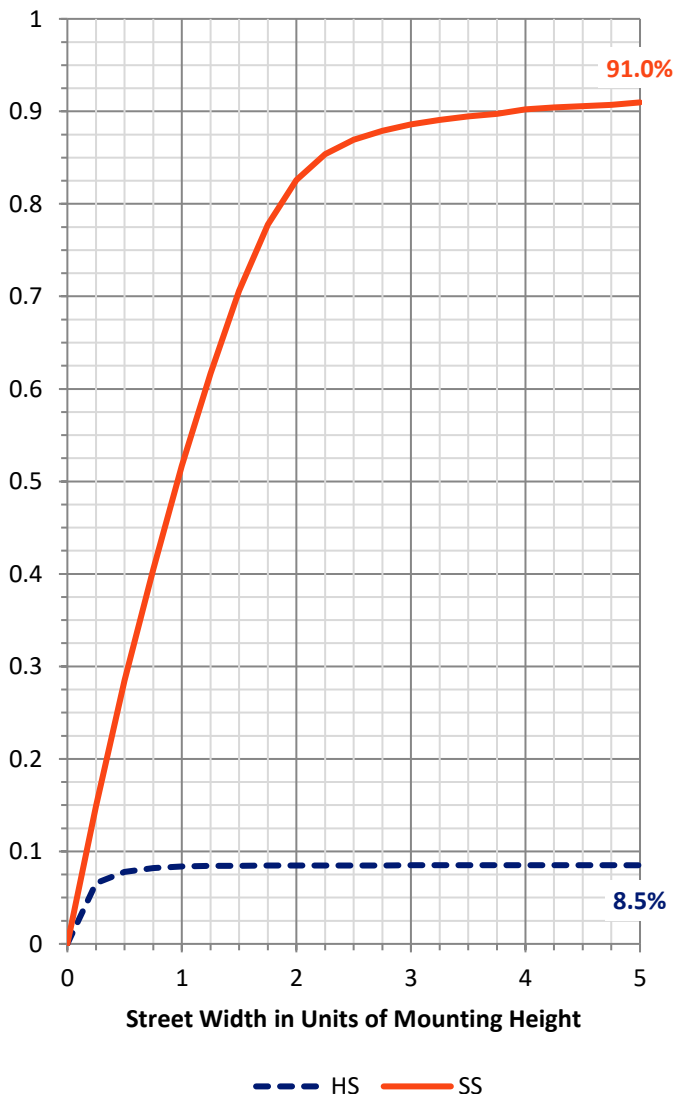
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4012.5	0.0	4012.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	42874.5	0.0	42874.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	46887.0	0.0	46887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.6	2.4
10°-20°	2377.0	5.1
20°-30°	3125.0	6.7
30°-40°	4138.7	8.8
40°-50°	6186.1	13.2
50°-60°	9909.9	21.1
60°-70°	12491.3	26.6
70°-80°	6737.7	14.4
80°-90°	788.7	1.7
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°	46887.0	100.0
0°-180°	46887.0	100.0

Coefficient of Utilization

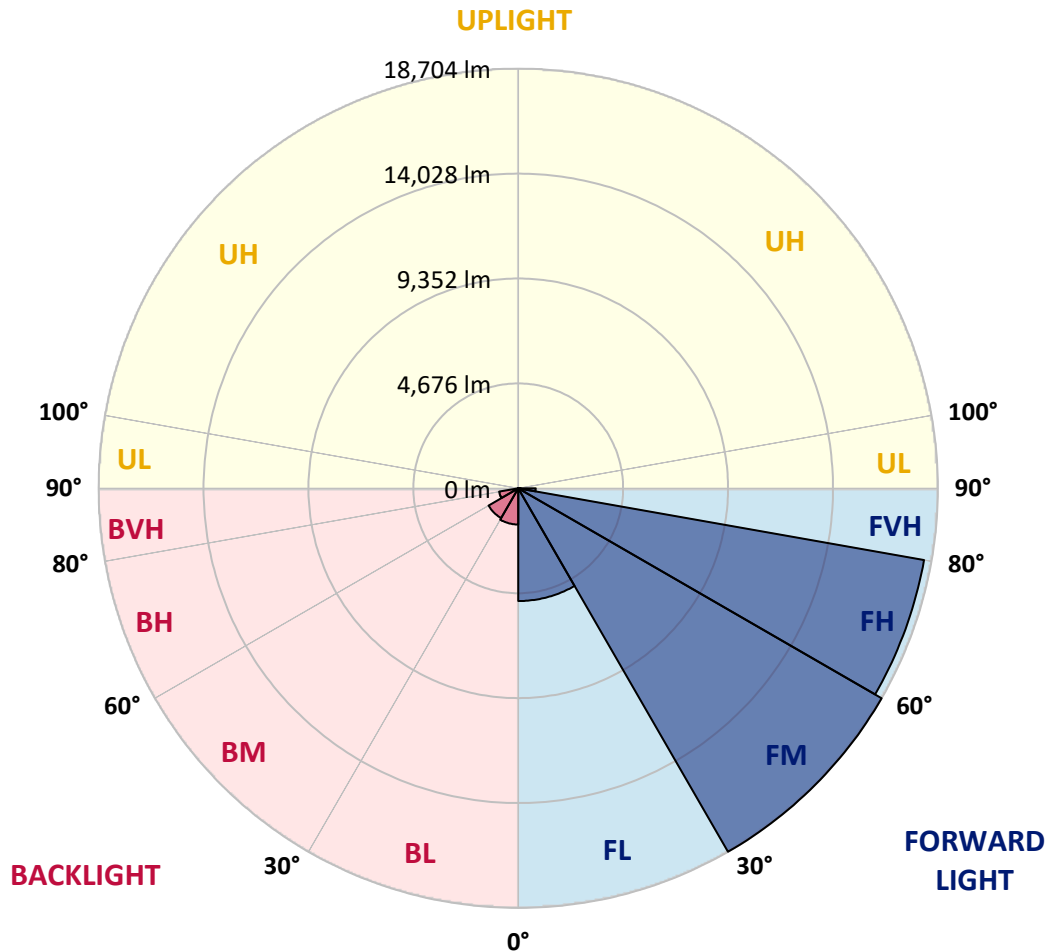


REPORT NUMBER: P323541
 CATALOG NUMBER: GAN-SA7D-740-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5022.6	10.7			
FM (30°-60°)	18703.9	39.9			
FH (60°-80°)	18366.1	39.2			G5
FVH (80°-90°)	781.9	1.7			G5
BL (0°-30°)	1612.1	3.4	B3/2500		
BM (30°-60°)	1530.7	3.3	B2/2500		
BH (60°-80°)	862.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.8	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





REPORT NUMBER: P323541

CATALOG NUMBER: GAN-SA7D-740-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2
2.5°	14998.5	14961.5	14947.8	14924.4	14834.8	14747.0	14573.5	14524.8	14415.6	14156.3	13881.4
5°	15010.2	15008.3	15049.2	15039.5	15008.3	14967.3	14842.6	14778.2	14593.0	14222.6	13719.6
7.5°	14286.9	14324.0	14415.6	14489.7	14575.5	14686.6	14702.2	14639.8	14487.7	14088.1	13421.3
10°	13316.0	13374.5	13503.2	13649.4	13873.6	14095.9	14294.7	14286.9	14234.3	13840.4	13062.5
12.5°	12343.1	12411.4	12559.5	12775.9	13093.7	13456.4	13811.2	13859.9	13947.7	13618.2	12731.1
15°	11491.1	11549.6	11695.9	11961.0	12354.8	12842.2	13362.8	13452.5	13678.6	13444.7	12454.3
17.5°	10767.8	10804.9	10912.1	11206.5	11662.7	12253.4	12930.0	13105.4	13442.7	13308.2	12214.5
20°	10262.9	10268.7	10338.9	10545.6	11001.8	11662.7	12481.6	12733.1	13193.2	13191.2	11966.9
22.5°	10013.3	9993.8	10007.5	10126.4	10461.7	11099.3	12033.1	12331.4	12969.0	13091.8	11715.3
25°	9966.5	9950.9	9911.9	9927.5	10130.3	10606.0	11580.8	11925.9	12772.1	13031.4	11497.0
27.5°	10112.8	10128.3	10062.1	9991.9	10007.5	10286.3	11179.2	11578.9	12612.2	13031.4	11343.0
30°	10407.1	10414.9	10366.2	10274.6	10151.7	10196.6	10900.4	11300.1	12532.2	13121.0	11245.5
32.5°	10732.7	10775.6	10769.8	10695.7	10520.2	10338.9	10834.1	11198.7	12526.4	13319.9	11235.7
35°	11136.3	11185.0	11266.9	11251.3	11068.1	10769.8	11060.3	11346.9	12641.4	13647.4	11341.0
37.5°	11565.2	11639.3	11814.8	11898.6	11779.7	11442.4	11567.2	11771.9	12949.5	14177.7	11608.1
40°	11980.5	12064.3	12384.1	12713.6	12623.9	12276.8	12335.3	12499.1	13497.3	14940.0	12115.0
42.5°	12388.0	12512.7	12982.6	13524.6	13631.8	13355.0	13386.2	13516.8	14310.3	15988.9	12943.6
45°	12875.4	13015.8	13711.8	14380.5	14667.1	14546.2	14678.8	14764.6	15372.9	17375.1	14060.8
47.5°	13590.9	13752.7	14606.7	15369.0	15872.0	15950.0	16217.1	16273.6	16716.2	18989.4	15517.1
50°	14986.8	15031.7	15803.7	16495.9	17221.1	17689.0	17993.2	18036.1	18342.2	20753.9	17336.1
52.5°	16743.5	16772.7	17209.4	17673.4	18498.1	19453.4	20165.1	20225.5	20289.8	22473.4	19131.8
55°	18488.4	18484.5	18773.0	19046.0	19989.6	21377.7	22921.8	22958.9	22496.8	24105.3	20504.3
57.5°	19578.2	19683.5	20122.2	20473.1	21791.1	23571.1	25713.7	25850.2	24814.9	25314.0	21861.2
60°	19231.2	19281.9	20254.7	21553.2	24035.1	26688.5	28538.7	28573.8	26557.9	26520.9	23576.9
62.5°	16384.7	16412.0	17940.5	20617.4	25171.7	30732.1	31946.7	31375.5	28562.1	28195.6	25629.9
65°	11229.9	11407.3	12684.3	15992.8	23083.7	33268.5	37222.4	36276.8	31617.2	30609.2	27485.9
67.5°	6613.2	6576.1	7207.8	9644.8	16954.0	31584.1	43896.0	42956.3	35783.6	32225.5	26942.0
70°	4517.3	4492.0	4733.7	5839.2	9570.8	24501.0	45995.8	47892.8	39462.5	31137.6	23187.0
72.5°	3224.7	3238.3	3595.1	4536.8	6008.8	14275.2	39554.2	44044.2	38310.3	27144.8	17624.7
75°	2189.4	2226.5	2737.3	3721.9	5267.9	7262.4	28068.9	33481.1	31196.1	19728.3	10130.3
77.5°	1177.6	1218.5	1821.0	2998.5	4763.0	5045.7	18055.6	23042.7	19595.8	8868.9	2936.1
80°	491.3	514.7	852.0	2179.7	4115.7	4431.5	10623.6	13973.0	8350.3	1748.8	655.1
82.5°	212.5	224.2	354.8	1300.4	3076.5	3741.3	5624.7	6722.3	2530.6	384.1	329.5
85°	40.9	42.9	146.2	688.2	1963.3	2111.5	3645.8	3573.7	1136.6	165.7	239.8
87.5°	0.0	0.0	35.1	216.4	577.1	1150.3	2224.5	2197.2	386.0	79.9	89.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323541
 CATALOG NUMBER: GAN-SA7D-740-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2	13850.2
2.5°	13741.0	13606.5	13323.8	12974.8	12707.7	12413.3	12179.4	11883.0	11754.3	11760.2	11690.0
5°	13433.0	13156.1	12530.3	11740.7	11132.4	10504.6	9964.6	9426.5	9108.7	9005.4	8907.9
7.5°	12992.4	12553.7	11555.5	10338.9	9309.5	8303.5	7428.1	6658.0	6170.6	5932.7	5845.0
10°	12495.2	11879.1	10434.4	8831.8	7361.8	6001.0	4866.3	3879.8	3485.9	3218.8	3150.6
12.5°	12058.5	11224.0	9338.7	7285.8	5540.9	3899.3	2817.2	2203.1	1936.0	1830.7	1813.2
15°	11647.1	10611.9	8284.0	5885.9	3836.9	2400.0	1791.7	1583.1	1520.7	1503.2	1503.2
17.5°	11259.1	10028.9	7252.6	4507.6	2538.4	1682.5	1483.7	1436.9	1417.4	1415.4	1417.4
20°	10853.6	9446.0	6238.8	3302.7	1772.2	1425.2	1370.6	1345.2	1339.4	1339.4	1339.4
22.5°	10465.6	8863.0	5252.3	2359.1	1421.3	1300.4	1273.1	1255.6	1249.7	1247.8	1243.9
25°	10093.3	8309.3	4289.2	1666.9	1247.8	1191.2	1167.8	1144.4	1126.9	1117.1	1111.3
27.5°	9787.2	7816.1	3392.4	1337.4	1126.9	1078.1	1048.9	1013.8	970.9	951.4	943.6
30°	9543.5	7365.7	2614.5	1128.8	1013.8	965.1	920.2	859.8	797.4	764.3	762.3
32.5°	9352.4	6923.1	1984.7	998.2	912.4	852.0	787.7	711.6	639.5	602.4	600.5
35°	9258.8	6533.2	1516.8	902.7	822.7	746.7	666.8	582.9	512.8	477.7	473.8
37.5°	9321.2	6203.7	1183.4	822.7	746.7	659.0	565.4	477.7	415.3	384.1	382.1
40°	9549.3	5993.2	961.2	754.5	682.4	575.1	473.8	391.9	339.2	313.9	311.9
42.5°	10034.8	5915.2	820.8	698.0	620.0	497.2	393.8	323.6	274.9	257.4	253.5
45°	10845.8	6030.2	725.3	643.4	555.6	423.1	325.6	265.2	222.3	208.6	206.7
47.5°	11925.9	6332.4	657.0	590.7	497.2	356.8	271.0	214.5	181.3	167.7	165.7
50°	13317.9	6812.0	600.5	538.1	442.6	302.2	224.2	169.6	140.4	130.6	130.6
52.5°	14832.8	7383.3	549.8	489.4	388.0	251.5	181.3	130.6	111.1	99.4	99.4
55°	16084.5	7882.4	495.2	452.3	321.7	208.6	138.4	99.4	81.9	76.0	76.0
57.5°	17334.2	8414.6	432.8	388.0	257.4	169.6	105.3	74.1	60.4	56.5	56.5
60°	18954.3	9065.8	372.4	315.8	202.8	128.7	78.0	52.6	44.8	42.9	42.9
62.5°	20736.3	9447.9	317.8	253.5	157.9	95.5	56.5	35.1	33.1	33.1	31.2
65°	21826.1	8907.9	267.1	202.8	122.8	72.1	37.0	25.3	29.2	27.3	23.4
67.5°	20436.1	6973.8	218.4	157.9	95.5	54.6	23.4	17.5	31.2	25.3	19.5
70°	16920.9	4881.9	169.6	111.1	76.0	46.8	15.6	11.7	33.1	25.3	15.6
72.5°	12662.9	3267.6	134.5	74.1	56.5	40.9	13.6	5.8	29.2	21.4	13.6
75°	6919.3	1316.0	107.2	46.8	35.1	29.2	9.7	3.9	19.5	15.6	9.7
77.5°	1821.0	347.0	78.0	31.2	19.5	11.7	5.8	1.9	9.7	7.8	3.9
80°	464.0	134.5	50.7	21.4	13.6	5.8	0.0	0.0	1.9	0.0	0.0
82.5°	247.6	56.5	31.2	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	187.2	37.0	17.5	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	72.1	11.7	5.8	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)