

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: P324802

Luminaire Tested: **GAN-SA8B-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37492 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

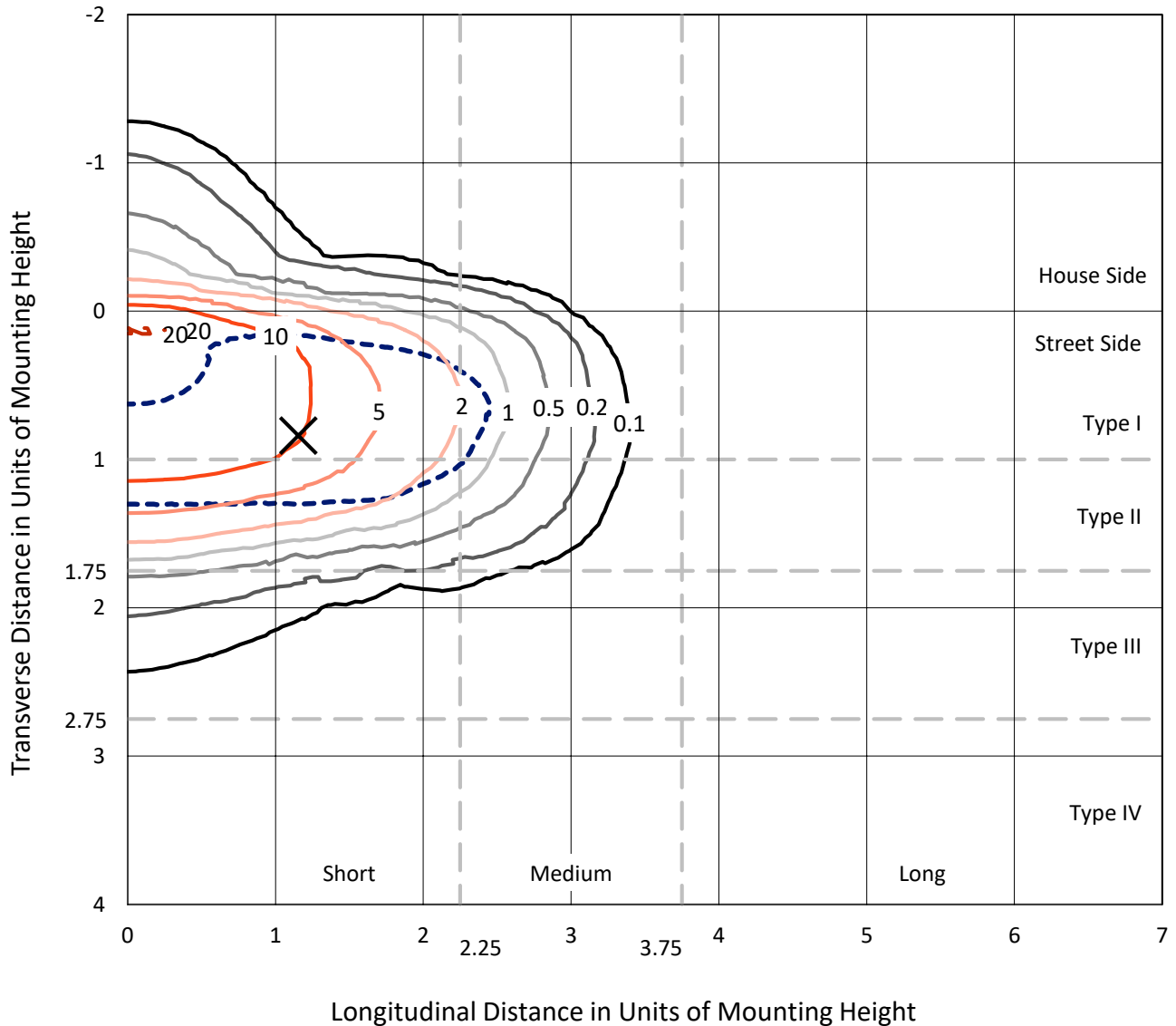
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324802
 CATALOG NUMBER: GAN-SA8B-740-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

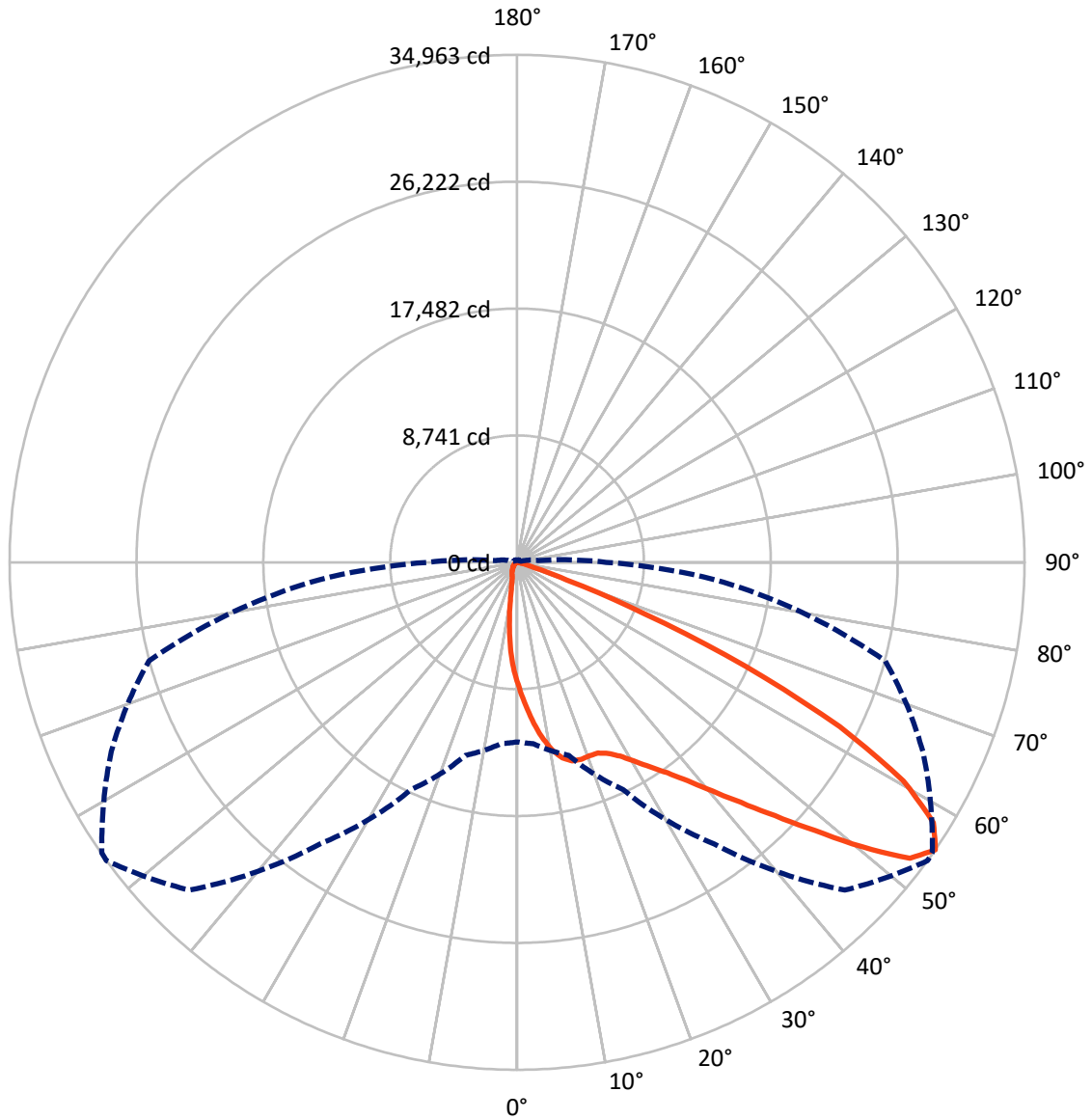
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

REPORT NUMBER: P324802
CATALOG NUMBER: GAN-SA8B-740-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: GAN-SA8B-740-U-AFL-HSS

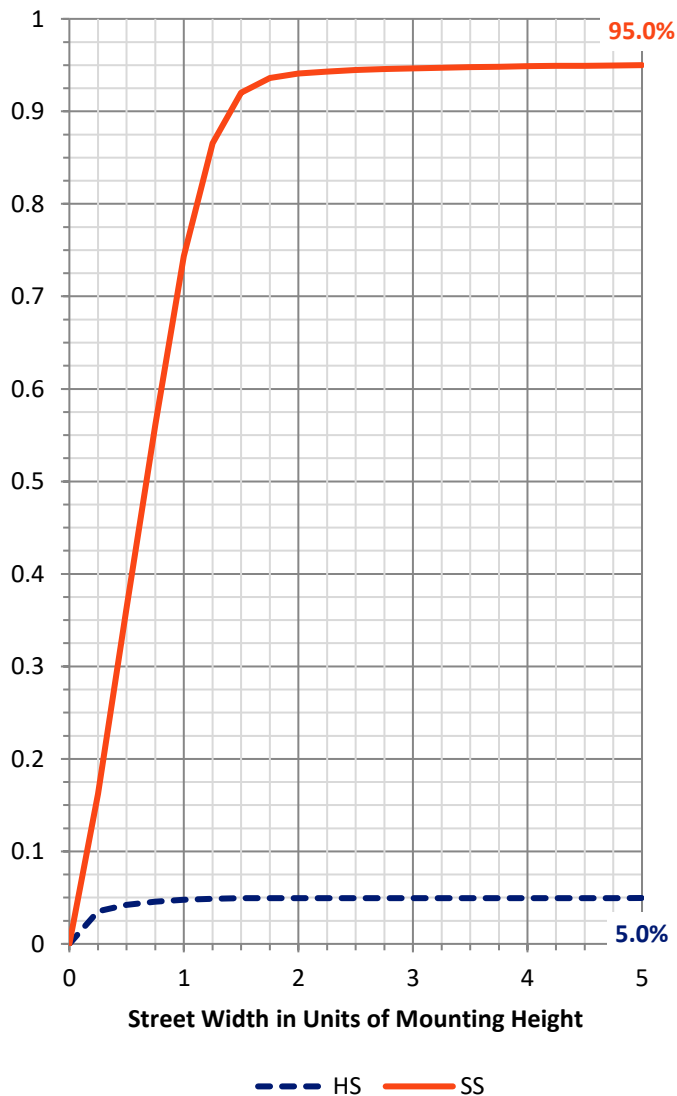
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.6	0.0	1870.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35621.4	0.0	35621.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	37492.0	0.0	37492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.2	2.1
10°-20°	2120.6	5.7
20°-30°	3620.6	9.7
30°-40°	5810.5	15.5
40°-50°	9285.2	24.8
50°-60°	9949.3	26.5
60°-70°	5108.3	13.6
70°-80°	773.8	2.1
80°-90°	50.4	0.1
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°	37492.0	100.0
0°-180°	37492.0	100.0

Coefficient of Utilization

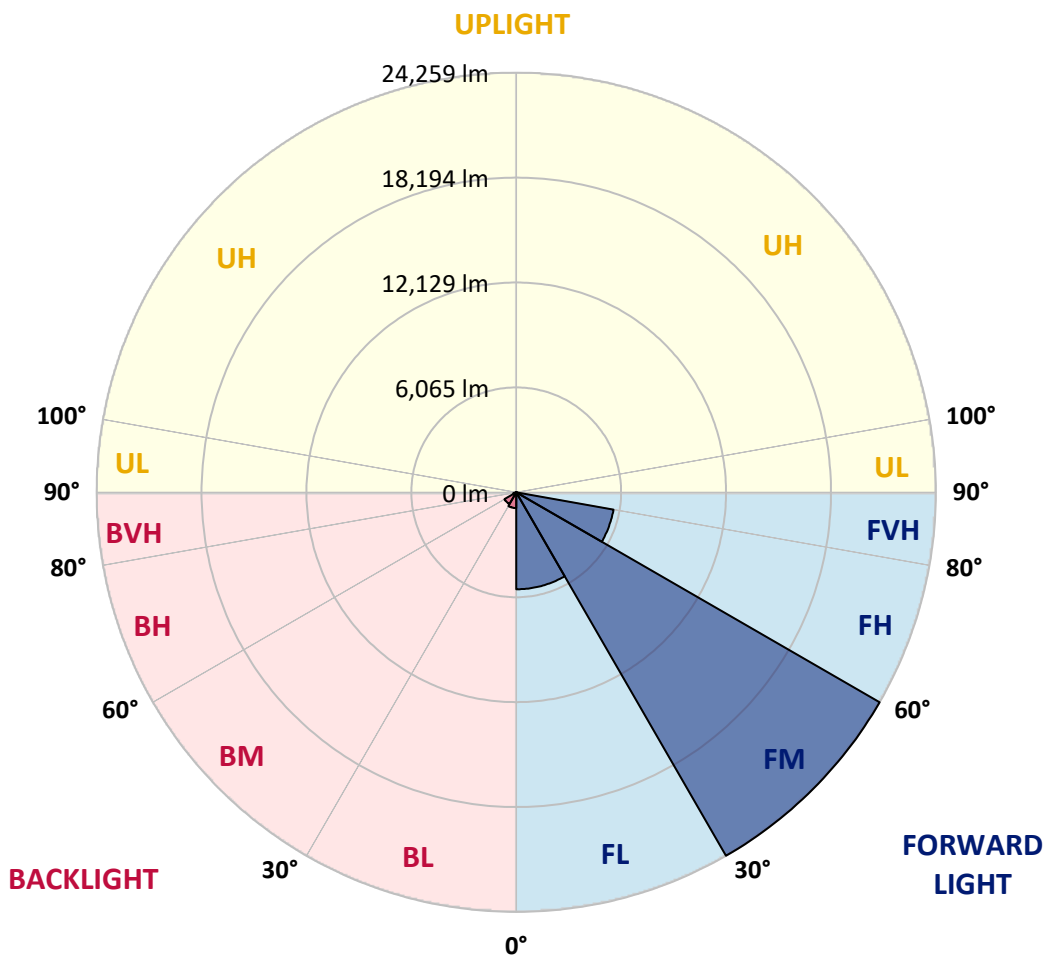


REPORT NUMBER: P324802
 CATALOG NUMBER: GAN-SA8B-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5604.4	14.9			
FM (30°-60°)	24259.0	64.7			
FH (60°-80°)	5709.7	15.2			G3/7500
FVH (80°-90°)	48.4	0.1			G1/100
BL (0°-30°)	910.1	2.4	B2/1000		
BM (30°-60°)	786.1	2.1	B1/1000		
BH (60°-80°)	172.4	0.5	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





REPORT NUMBER: P324802
 CATALOG NUMBER: GAN-SA8B-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7
2.5°	10537.2	10380.1	10385.0	10313.7	10053.1	9849.0	9636.9	9586.7	9256.5	8910.0	8576.4
5°	12358.7	12243.7	12216.2	12078.6	11715.9	11332.1	10920.9	10825.4	10179.3	9470.2	8772.3
7.5°	13294.5	13296.1	13273.5	13223.3	12996.6	12624.2	12122.3	12021.9	11142.7	10079.0	8976.3
10°	13022.5	13084.0	13210.3	13377.1	13550.3	13503.4	13126.1	13035.5	12080.2	10723.4	9203.0
12.5°	12387.8	12395.9	12536.8	12810.4	13309.1	13820.7	13827.2	13796.4	12975.5	11396.9	9452.4
15°	12072.1	12102.8	12154.7	12331.1	12803.9	13623.2	14209.3	14253.0	13796.4	12112.6	9717.9
17.5°	12279.3	12323.0	12279.3	12300.4	12574.0	13310.7	14275.7	14387.4	14513.7	12820.1	9968.9
20°	12841.2	12881.6	12803.9	12718.1	12771.5	13220.0	14228.7	14379.3	15075.5	13448.3	10179.3
22.5°	13598.9	13615.1	13496.9	13356.0	13317.2	13527.7	14267.6	14423.0	15525.6	14016.6	10312.1
25°	14432.7	14447.3	14300.0	14138.1	14045.8	14131.6	14586.6	14703.1	15922.3	14559.0	10388.2
27.5°	15341.1	15354.0	15169.4	14970.3	14863.4	14866.7	15112.8	15237.4	16344.9	15177.5	10449.7
30°	16301.2	16294.7	16124.7	15847.8	15711.8	15708.6	15870.5	15996.8	16956.9	15970.9	10533.9
32.5°	17379.5	17366.6	17125.3	16782.1	16628.3	16650.9	16795.0	16867.9	17716.3	16816.1	10684.5
35°	18799.5	18762.2	18397.9	17972.1	17688.8	17680.7	17802.1	17860.4	18684.5	17839.4	10935.5
37.5°	20642.0	20608.0	20114.2	19495.7	19097.4	18948.4	19092.5	19167.0	20065.6	19152.4	11338.6
40°	22458.7	22424.7	22131.6	21564.9	20951.3	20593.5	20706.8	20786.1	21790.0	20745.7	11847.0
42.5°	23711.9	23741.0	23843.0	23890.0	23315.2	22563.9	22615.7	22698.3	23601.8	22449.0	12428.3
45°	24042.2	24105.3	24681.7	25813.5	26028.8	25442.7	24900.3	24945.6	25442.7	24152.3	13009.5
47.5°	23049.6	23166.2	24278.6	26383.4	28206.5	28621.0	27594.5	27534.6	27209.1	25530.1	13422.4
50°	20794.2	20901.1	22342.1	25455.6	28867.1	31655.2	30823.0	30646.5	28758.6	26354.2	13568.1
52.5°	17530.1	17659.6	18830.2	22534.8	27622.0	33008.8	33879.9	33732.5	29895.2	26419.0	13592.4
55°	12379.7	12536.8	13775.4	17271.0	23676.2	31932.1	34963.1	34919.3	30839.2	26247.4	13644.2
57.5°	6957.3	7070.7	8406.4	11071.5	17340.7	27813.1	33831.3	34121.1	31409.1	25949.5	13722.0
60°	3089.3	3120.0	3811.4	5511.4	10151.8	21255.7	30591.5	31080.4	30920.1	25551.2	13853.1
62.5°	1713.0	1687.1	1687.1	2291.0	4412.1	13158.5	24945.6	25753.6	28833.1	25080.0	13859.6
65°	1342.2	1318.0	1248.3	1258.0	1680.6	5840.1	17274.3	18710.4	24869.5	23698.9	13393.3
67.5°	1138.2	1117.2	1047.6	1020.0	1044.3	1926.7	9491.2	10982.4	18870.7	20109.3	11600.9
70°	961.8	947.2	911.6	877.6	816.0	952.0	3631.7	4645.2	11628.4	13377.1	7919.1
72.5°	773.9	767.5	780.4	751.3	676.8	634.7	1241.9	1504.2	5223.2	5969.7	3262.5
75°	667.1	663.8	670.3	641.2	557.0	442.0	631.5	689.7	1473.4	1460.4	660.6
77.5°	433.9	438.8	555.4	542.4	479.3	294.7	327.1	353.0	446.9	335.2	200.8
80°	276.9	273.6	281.7	450.1	430.7	225.1	163.5	171.6	215.3	165.1	97.1
82.5°	168.4	165.1	184.6	210.5	217.0	157.1	100.4	102.0	134.4	106.9	51.8
85°	14.6	19.4	111.7	103.6	74.5	48.6	48.6	51.8	71.2	63.1	29.1
87.5°	0.0	0.0	19.4	29.1	16.2	17.8	17.8	19.4	27.5	27.5	14.6
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°	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7	8396.7
2.5°	8403.2	8234.8	7894.8	7567.7	7290.9	7023.7	6719.3	6418.2	6277.3	6220.6	6162.3
5°	8417.8	8071.3	7370.2	6664.3	5932.4	5273.4	4711.6	4135.2	3847.0	3720.7	3662.4
7.5°	8437.2	7909.4	6776.0	5590.8	4412.1	3518.3	2737.9	2236.0	2019.0	1985.0	1900.8
10°	8440.4	7713.4	6086.2	4405.6	2958.1	2121.0	1632.1	1373.0	1277.5	1261.3	1233.8
12.5°	8446.9	7481.9	5320.4	3262.5	1972.1	1418.3	1180.3	1094.5	1068.6	1067.0	1067.0
15°	8466.3	7239.0	4525.4	2350.9	1416.7	1123.7	1036.2	1002.2	992.5	997.4	995.8
17.5°	8466.3	6952.5	3745.0	1751.9	1144.7	1010.3	961.8	939.1	935.8	940.7	942.3
20°	8404.8	6604.3	3029.4	1363.3	1015.2	937.5	893.7	872.7	864.6	867.8	869.5
22.5°	8257.5	6176.9	2446.5	1128.5	929.4	871.1	824.1	791.7	778.8	780.4	780.4
25°	8027.5	5670.1	1913.8	976.3	859.7	799.8	744.8	707.6	699.5	697.8	701.1
27.5°	7732.9	5109.9	1523.6	859.7	777.2	720.5	665.5	634.7	628.2	629.8	631.5
30°	7443.0	4528.7	1201.4	761.0	684.9	631.5	589.4	574.8	574.8	579.6	581.3
32.5°	7177.5	3970.1	950.4	675.2	602.3	553.7	529.4	527.8	535.9	539.2	540.8
35°	6949.2	3453.6	786.9	608.8	537.5	495.4	487.4	493.8	503.5	510.0	511.6
37.5°	6787.3	2992.1	688.1	553.7	487.4	453.4	451.7	464.7	477.6	492.2	495.4
40°	6719.3	2601.9	620.1	505.2	446.9	421.0	416.1	433.9	458.2	479.3	482.5
42.5°	6662.6	2282.9	561.8	458.2	414.5	377.3	375.6	398.3	427.4	448.5	453.4
45°	6614.1	2027.1	508.4	408.0	372.4	323.8	328.7	357.8	380.5	403.2	408.0
47.5°	6513.7	1816.6	450.1	354.6	307.6	276.9	286.6	312.5	330.3	364.3	369.2
50°	6334.0	1645.0	390.2	289.8	251.0	239.6	254.2	272.0	294.7	323.8	327.1
52.5°	6212.5	1515.5	338.4	242.9	207.2	210.5	225.1	231.5	244.5	255.8	252.6
55°	6142.9	1444.2	296.3	210.5	176.5	186.2	189.4	181.3	174.9	163.5	158.7
57.5°	6134.8	1379.5	263.9	183.0	155.4	160.3	149.0	121.4	98.8	85.8	82.6
60°	6121.9	1300.1	238.0	153.8	137.6	131.1	106.9	66.4	47.0	43.7	43.7
62.5°	5981.0	1177.1	218.6	129.5	116.6	98.8	61.5	30.8	25.9	27.5	27.5
65°	5532.5	1005.5	199.2	105.2	92.3	71.2	30.8	17.8	9.7	11.3	11.3
67.5°	4703.5	801.5	178.1	81.0	69.6	45.3	17.8	8.1	0.0	0.0	0.0
70°	3149.2	497.1	150.6	56.7	45.3	27.5	13.0	1.6	0.0	0.0	0.0
72.5°	1207.9	268.8	121.4	34.0	29.1	19.4	8.1	0.0	0.0	0.0	0.0
75°	272.0	176.5	84.2	24.3	21.0	13.0	3.2	0.0	0.0	0.0	0.0
77.5°	103.6	127.9	48.6	16.2	14.6	8.1	0.0	0.0	0.0	0.0	0.0
80°	50.2	76.1	22.7	9.7	8.1	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	25.9	29.1	9.7	4.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	14.6	4.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.9	1.6	1.6	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)