

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: P324824

Luminaire Tested: **GAN-SA0D-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324824
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-SA0D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA 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: 62869 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

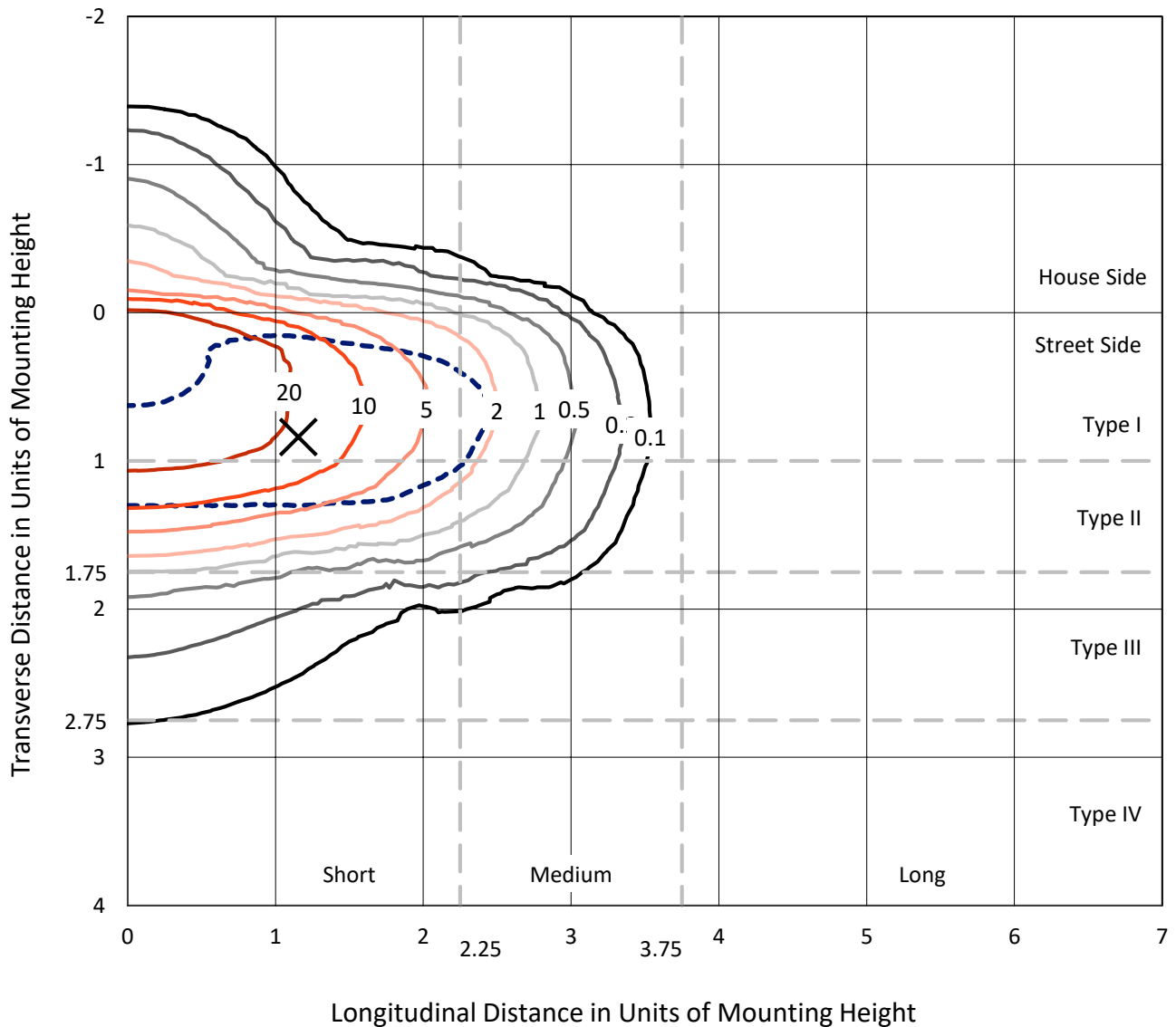
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324824
 CATALOG NUMBER: GAN-SA0D-740-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

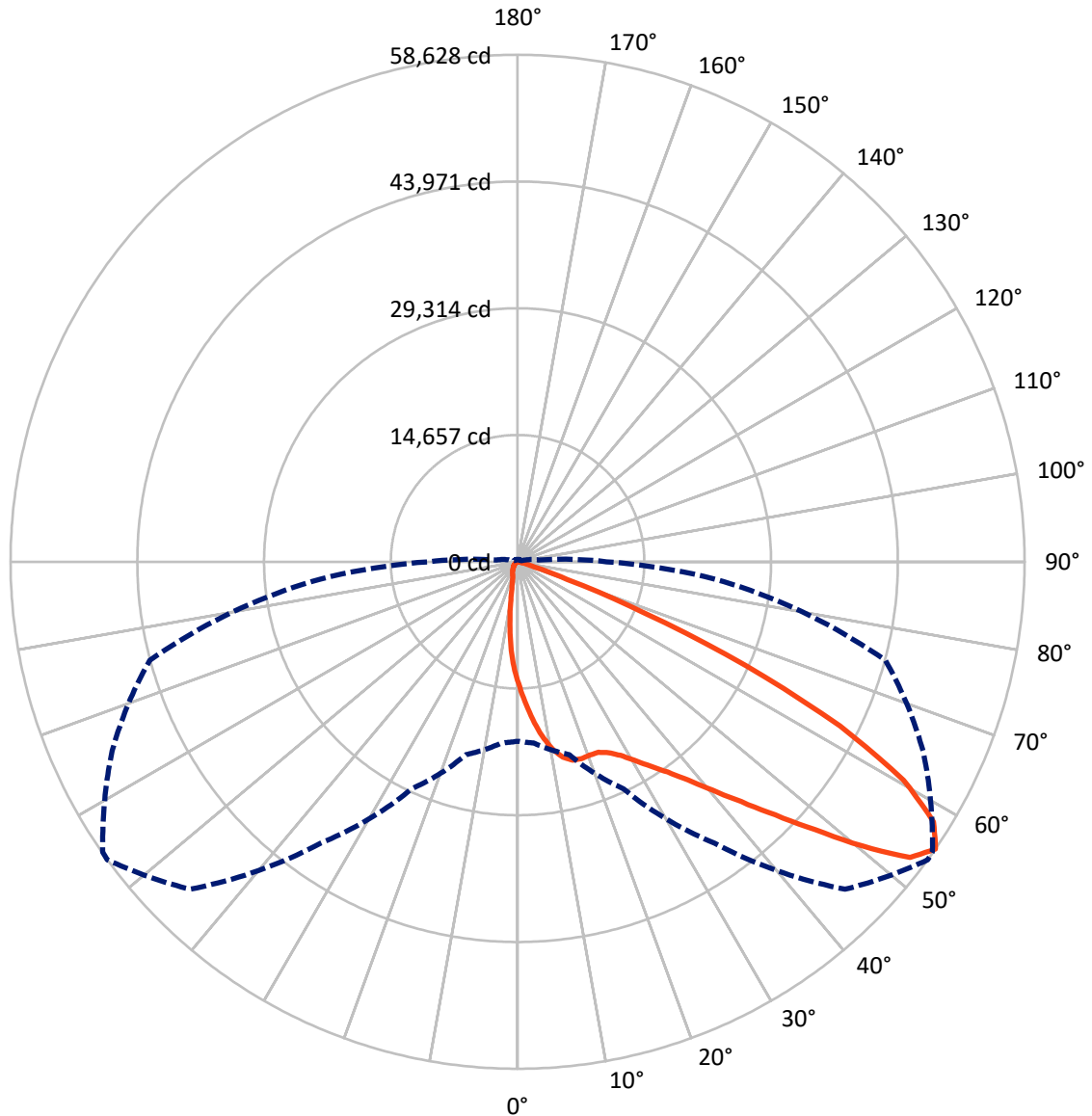
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.6 fc
 Type II - Short - N/A

REPORT NUMBER: P324824
CATALOG NUMBER: GAN-SA0D-740-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P324824
 CATALOG NUMBER: GAN-SA0D-740-U-AFL-HSS

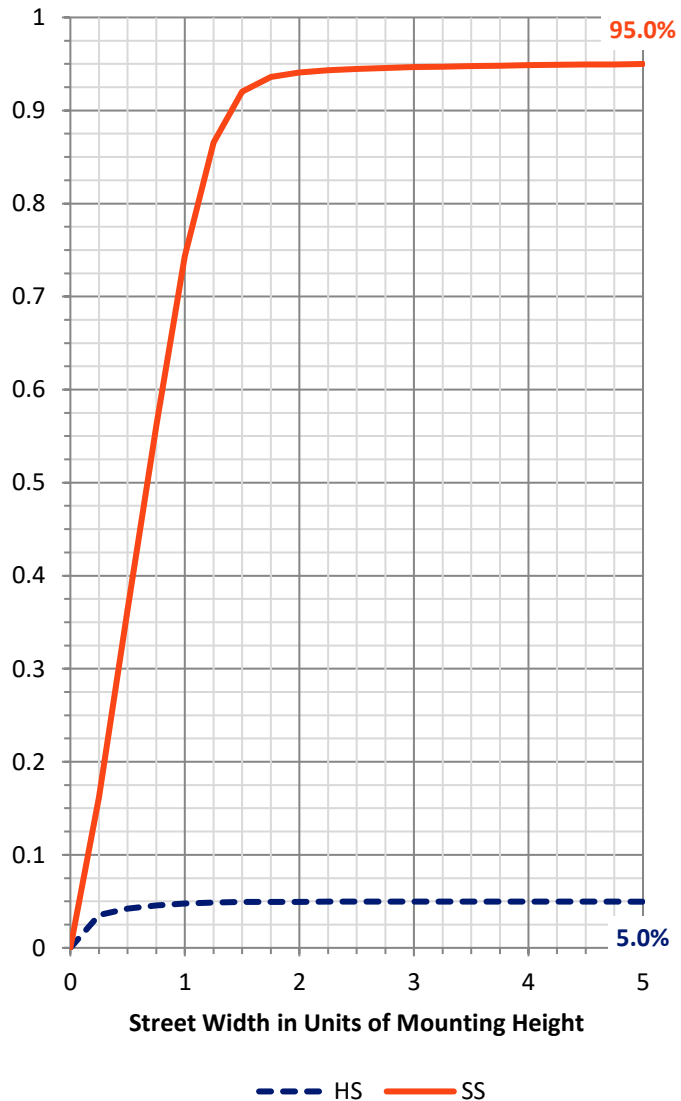
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3136.7	0.0	3136.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	59732.3	0.0	59732.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	62869.0	0.0	62869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1296.6	2.1
10°-20°	3556.0	5.7
20°-30°	6071.3	9.7
30°-40°	9743.4	15.5
40°-50°	15570.0	24.8
50°-60°	16683.7	26.5
60°-70°	8565.9	13.6
70°-80°	1297.5	2.1
80°-90°	84.5	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°	62869.0	100.0
0°-180°	62869.0	100.0

Coefficient of Utilization

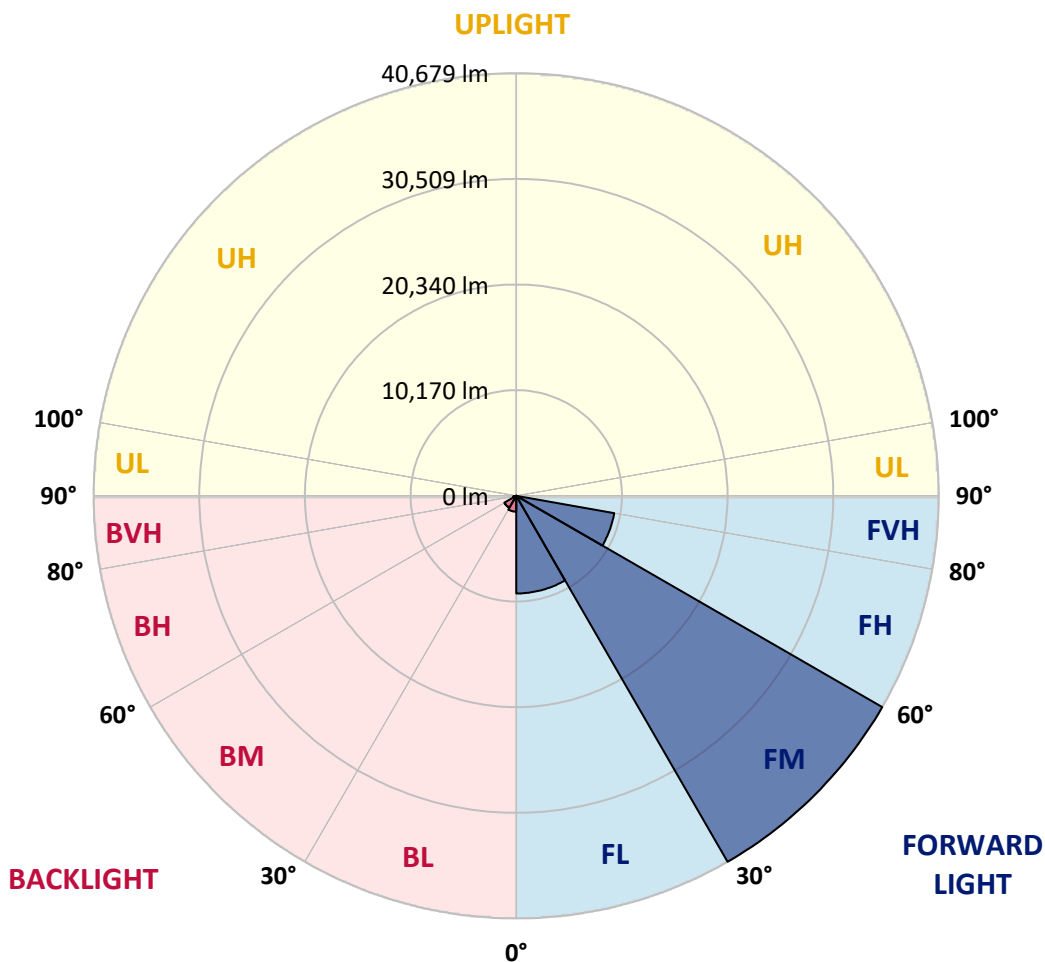


REPORT NUMBER: P324824
 CATALOG NUMBER: GAN-SA0D-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9397.8	14.9			
FM (30°-60°)	40679.0	64.7			
FH (60°-80°)	9574.4	15.2			G4/12000
FVH (80°-90°)	81.1	0.1			G1/100
BL (0°-30°)	1526.1	2.4	B3/2500		
BM (30°-60°)	1318.1	2.1	B2/2500		
BH (60°-80°)	289.1	0.5	B1/500		G1/500
BVH (80°-90°)	3.4	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-G4
 Type II Short





REPORT NUMBER: P324824

CATALOG NUMBER: GAN-SA0D-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1
2.5°	17669.4	17406.0	17414.2	17294.7	16857.6	16515.5	16159.8	16075.7	15521.8	14940.8	14381.5
5°	20723.8	20531.0	20484.9	20254.1	19645.9	19002.5	18312.9	18152.7	17069.4	15880.2	14710.0
7.5°	22293.1	22295.8	22257.8	22173.6	21793.5	21169.1	20327.4	20159.1	18684.8	16901.0	15052.1
10°	21837.0	21940.1	22151.9	22431.6	22722.1	22643.3	22010.7	21858.7	20256.8	17981.6	15432.2
12.5°	20772.7	20786.3	21022.5	21481.3	22317.5	23175.5	23186.3	23134.7	21758.2	19111.1	15850.3
15°	20243.2	20294.8	20381.7	20677.6	21470.4	22844.2	23827.1	23900.4	23134.7	20311.1	16295.6
17.5°	20590.8	20664.1	20590.8	20626.1	21084.9	22320.2	23938.4	24125.7	24337.5	21497.6	16716.4
20°	21532.9	21600.8	21470.4	21326.5	21416.1	22168.2	23859.7	24112.2	25279.6	22551.0	17069.4
22.5°	22803.5	22830.7	22632.5	22396.3	22331.1	22684.1	23924.8	24185.5	26034.4	23504.0	17292.0
25°	24201.8	24226.2	23979.1	23707.6	23552.9	23696.8	24459.7	24655.2	26699.6	24413.5	17419.6
27.5°	25724.9	25746.6	25437.1	25103.1	24924.0	24929.4	25342.1	25551.1	27408.2	25450.7	17522.8
30°	27334.9	27324.0	27039.0	26574.7	26346.6	26341.2	26612.7	26824.5	28434.5	26781.0	17664.0
32.5°	29143.1	29121.4	28716.8	28141.3	27883.3	27921.3	28163.0	28285.2	29707.8	28198.3	17916.5
35°	31524.2	31461.7	30850.9	30136.8	29661.7	29648.1	29851.7	29949.5	31331.4	29914.2	18337.3
37.5°	34613.9	34556.9	33728.8	32691.6	32023.7	31774.0	32015.6	32140.5	33647.3	32116.1	19013.3
40°	37660.1	37603.1	37111.7	36161.5	35132.5	34532.4	34722.5	34855.5	36538.8	34787.6	19865.9
42.5°	39761.6	39810.4	39981.5	40060.2	39096.4	37836.6	37923.5	38062.0	39577.0	37643.9	20840.6
45°	40315.4	40421.3	41387.9	43285.7	43646.8	42663.9	41754.4	41830.4	42663.9	40500.1	21815.2
47.5°	38651.1	38846.6	40711.8	44241.4	47298.5	47993.5	46272.2	46171.8	45626.0	42810.6	22507.6
50°	34869.1	35048.3	37464.7	42685.7	48406.2	53081.5	51686.0	51390.0	48224.3	44192.5	22751.9
52.5°	29395.6	29612.8	31575.8	37787.8	46318.4	55351.3	56812.0	56564.9	50130.3	44301.1	22792.7
55°	20759.1	21022.5	23099.5	28961.2	39701.8	53545.8	58628.3	58555.0	51713.1	44013.3	22879.5
57.5°	11666.5	11856.5	14096.4	18565.4	29077.9	46638.7	56730.5	57216.5	52668.8	43513.7	23009.9
60°	5180.3	5231.9	6391.2	9242.0	17023.2	35642.9	51297.7	52117.7	51848.9	42845.8	23229.8
62.5°	2872.5	2829.1	2829.1	3841.8	7398.5	22065.0	41830.4	43185.2	48349.2	42055.8	23240.6
65°	2250.8	2210.0	2093.3	2109.6	2818.2	9793.1	28966.6	31374.9	41702.8	39739.9	22458.7
67.5°	1908.7	1873.4	1756.6	1710.5	1751.2	3230.9	15915.5	18416.0	31643.6	33720.6	19453.2
70°	1612.7	1588.3	1528.6	1471.5	1368.4	1596.4	6089.8	7789.4	19499.3	22431.6	13279.2
72.5°	1297.8	1286.9	1308.6	1259.8	1134.9	1064.3	2082.4	2522.3	8758.7	10010.3	5470.8
75°	1118.6	1113.2	1124.0	1075.2	934.0	741.2	1058.9	1156.6	2470.7	2449.0	1107.7
77.5°	727.6	735.8	931.3	909.5	803.6	494.1	548.4	591.9	749.3	562.0	336.7
80°	464.3	458.8	472.4	754.8	722.2	377.4	274.2	287.8	361.1	276.9	162.9
82.5°	282.4	276.9	309.5	353.0	363.8	263.4	168.3	171.0	225.3	179.2	86.9
85°	24.4	32.6	187.3	173.8	124.9	81.5	81.5	86.9	119.5	105.9	48.9
87.5°	0.0	0.0	32.6	48.9	27.2	29.9	29.9	32.6	46.2	46.2	24.4
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: P324824
 CATALOG NUMBER: GAN-SAOD-740-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1	14080.1
2.5°	14091.0	13808.6	13238.5	12690.0	12225.8	11777.8	11267.4	10762.4	10526.2	10431.1	10333.4
5°	14115.4	13534.4	12358.8	11175.1	9947.9	8842.8	7900.7	6934.2	6450.9	6239.1	6141.4
7.5°	14148.0	13262.9	11362.4	9375.0	7398.5	5899.8	4591.1	3749.5	3385.6	3328.6	3187.4
10°	14153.4	12934.4	10205.8	7387.6	4960.4	3556.7	2736.7	2302.3	2142.2	2115.0	2068.9
12.5°	14164.3	12546.1	8921.6	5470.8	3306.9	2378.4	1979.3	1835.4	1791.9	1789.2	1789.2
15°	14196.9	12138.9	7588.5	3942.2	2375.6	1884.2	1737.6	1680.6	1664.3	1672.5	1669.7
17.5°	14196.9	11658.3	6279.9	2937.7	1919.5	1694.2	1612.7	1574.7	1569.3	1577.4	1580.1
20°	14093.7	11074.6	5079.8	2286.1	1702.3	1572.0	1498.7	1463.4	1449.8	1455.3	1458.0
22.5°	13846.6	10357.8	4102.4	1892.4	1558.4	1460.7	1381.9	1327.6	1305.9	1308.6	1308.6
25°	13461.1	9508.0	3209.2	1637.2	1441.7	1341.2	1248.9	1186.5	1172.9	1170.2	1175.6
27.5°	12967.0	8568.6	2554.8	1441.7	1303.2	1208.2	1115.9	1064.3	1053.4	1056.1	1058.9
30°	12481.0	7593.9	2014.6	1276.1	1148.5	1058.9	988.3	963.8	963.8	972.0	974.7
32.5°	12035.7	6657.2	1593.7	1132.2	1010.0	928.5	887.8	885.1	898.7	904.1	906.8
35°	11652.9	5791.2	1319.5	1020.9	901.4	830.8	817.2	828.1	844.4	855.2	857.9
37.5°	11381.4	5017.4	1153.9	928.5	817.2	760.2	757.5	779.2	800.9	825.4	830.8
40°	11267.4	4363.0	1039.9	847.1	749.3	705.9	697.8	727.6	768.4	803.6	809.1
42.5°	11172.3	3828.2	942.1	768.4	695.0	632.6	629.9	667.9	716.8	752.1	760.2
45°	11090.9	3399.2	852.5	684.2	624.5	543.0	551.2	600.0	638.0	676.0	684.2
47.5°	10922.6	3046.3	754.8	594.6	515.9	464.3	480.6	524.0	553.9	610.9	619.0
50°	10621.2	2758.5	654.3	486.0	420.8	401.8	426.3	456.1	494.1	543.0	548.4
52.5°	10417.6	2541.3	567.4	407.3	347.5	353.0	377.4	388.2	410.0	429.0	423.5
55°	10300.8	2421.8	496.9	353.0	295.9	312.2	317.7	304.1	293.2	274.2	266.1
57.5°	10287.2	2313.2	442.5	306.8	260.6	268.8	249.8	203.6	165.6	143.9	138.5
60°	10265.5	2180.2	399.1	257.9	230.8	219.9	179.2	111.3	78.7	73.3	73.3
62.5°	10029.3	1973.8	366.5	217.2	195.5	165.6	103.2	51.6	43.4	46.2	46.2
65°	9277.2	1686.0	333.9	176.5	154.8	119.5	51.6	29.9	16.3	19.0	19.0
67.5°	7887.2	1343.9	298.7	135.8	116.7	76.0	29.9	13.6	0.0	0.0	0.0
70°	5280.7	833.5	252.5	95.0	76.0	46.2	21.7	2.7	0.0	0.0	0.0
72.5°	2025.4	450.7	203.6	57.0	48.9	32.6	13.6	0.0	0.0	0.0	0.0
75°	456.1	295.9	141.2	40.7	35.3	21.7	5.4	0.0	0.0	0.0	0.0
77.5°	173.8	214.5	81.5	27.2	24.4	13.6	0.0	0.0	0.0	0.0	0.0
80°	84.2	127.6	38.0	16.3	13.6	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	48.9	16.3	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.4	24.4	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	8.1	2.7	2.7	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)