

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: P321231

Luminaire Tested: **GAN-SA7A-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24229 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

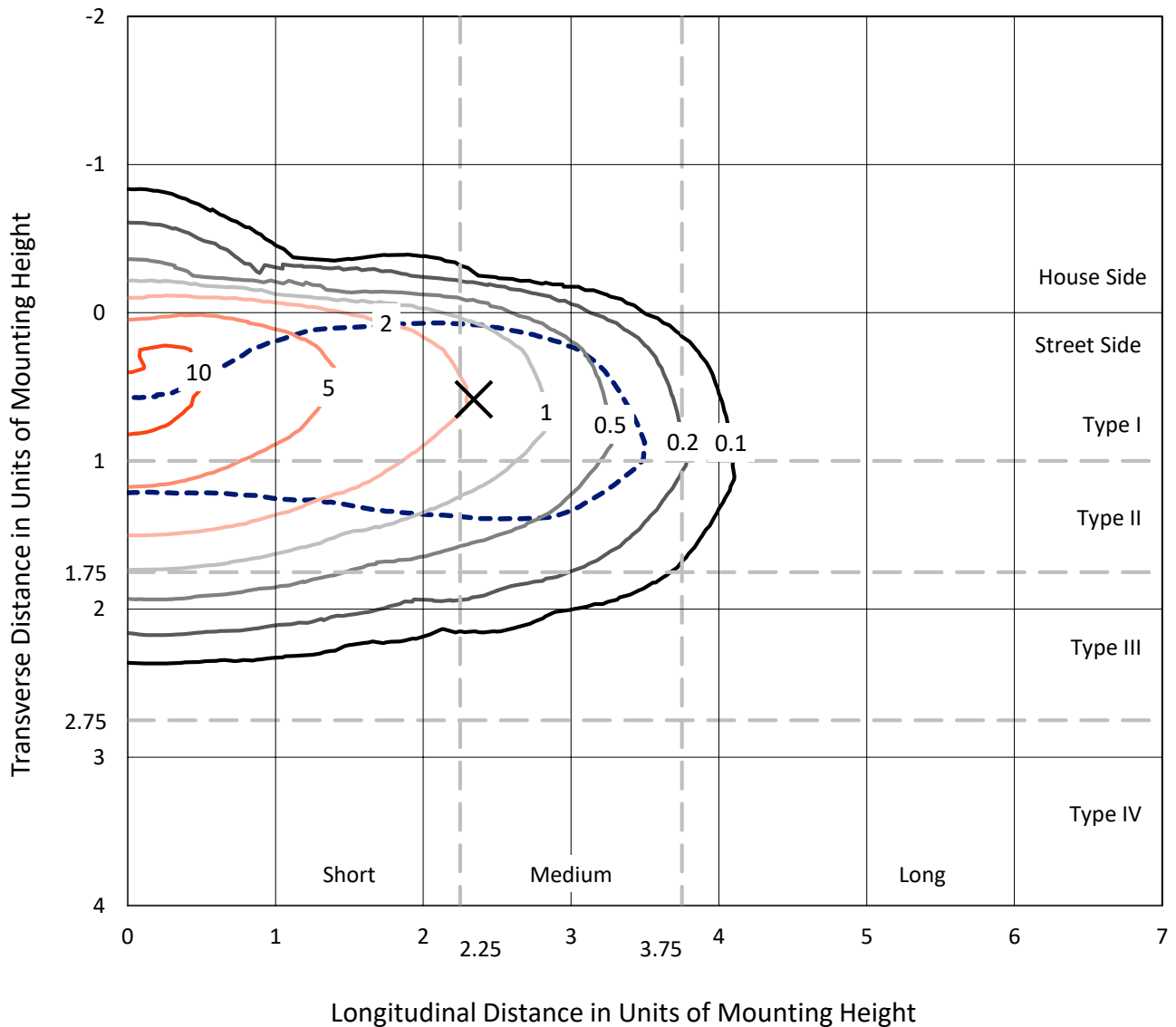
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

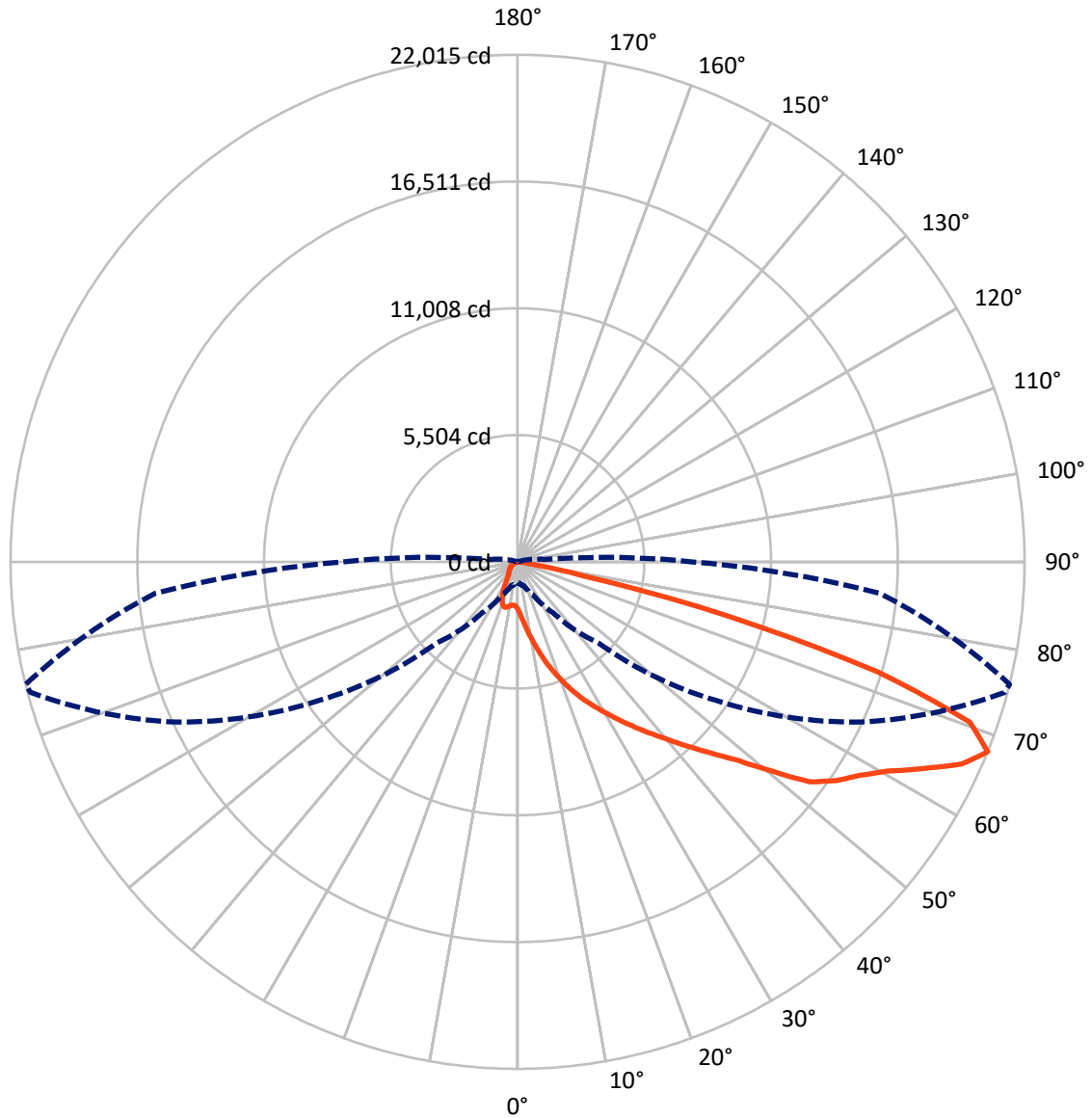
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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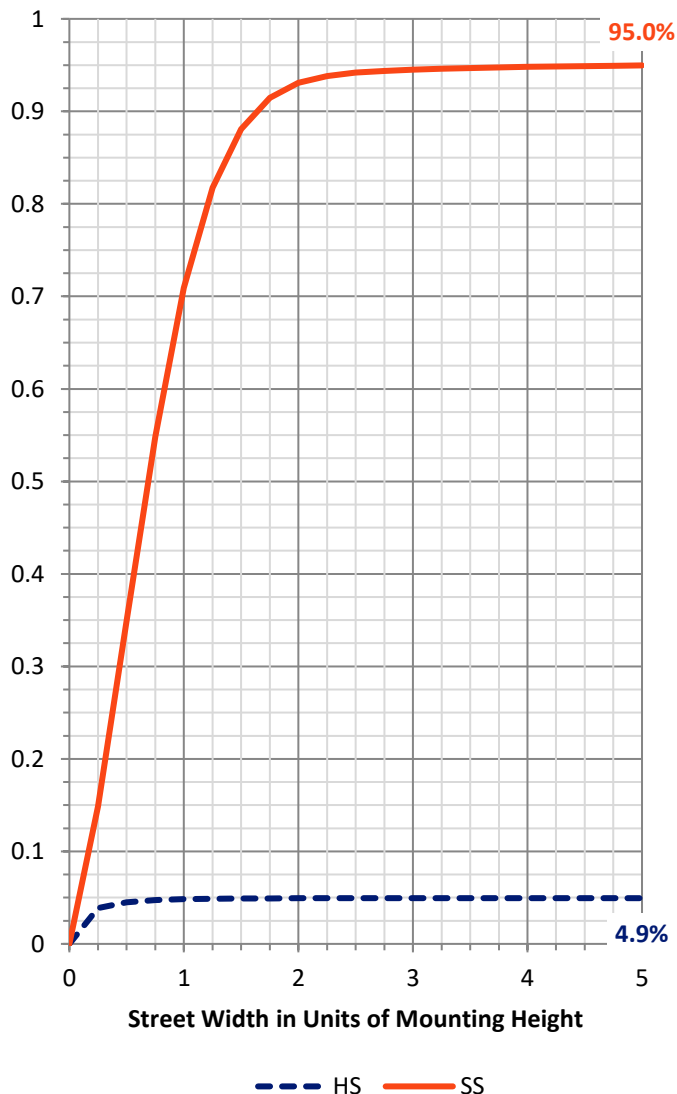
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1203.1	0.0	1203.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23025.9	0.0	23025.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	24229.0	0.0	24229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	1.1
10°-20°	1013.1	4.2
20°-30°	2061.4	8.5
30°-40°	3577.9	14.8
40°-50°	5055.2	20.9
50°-60°	5732.8	23.7
60°-70°	4754.8	19.6
70°-80°	1722.3	7.1
80°-90°	55.9	0.2
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°	24229.0	100.0
0°-180°	24229.0	100.0

Coefficient of Utilization

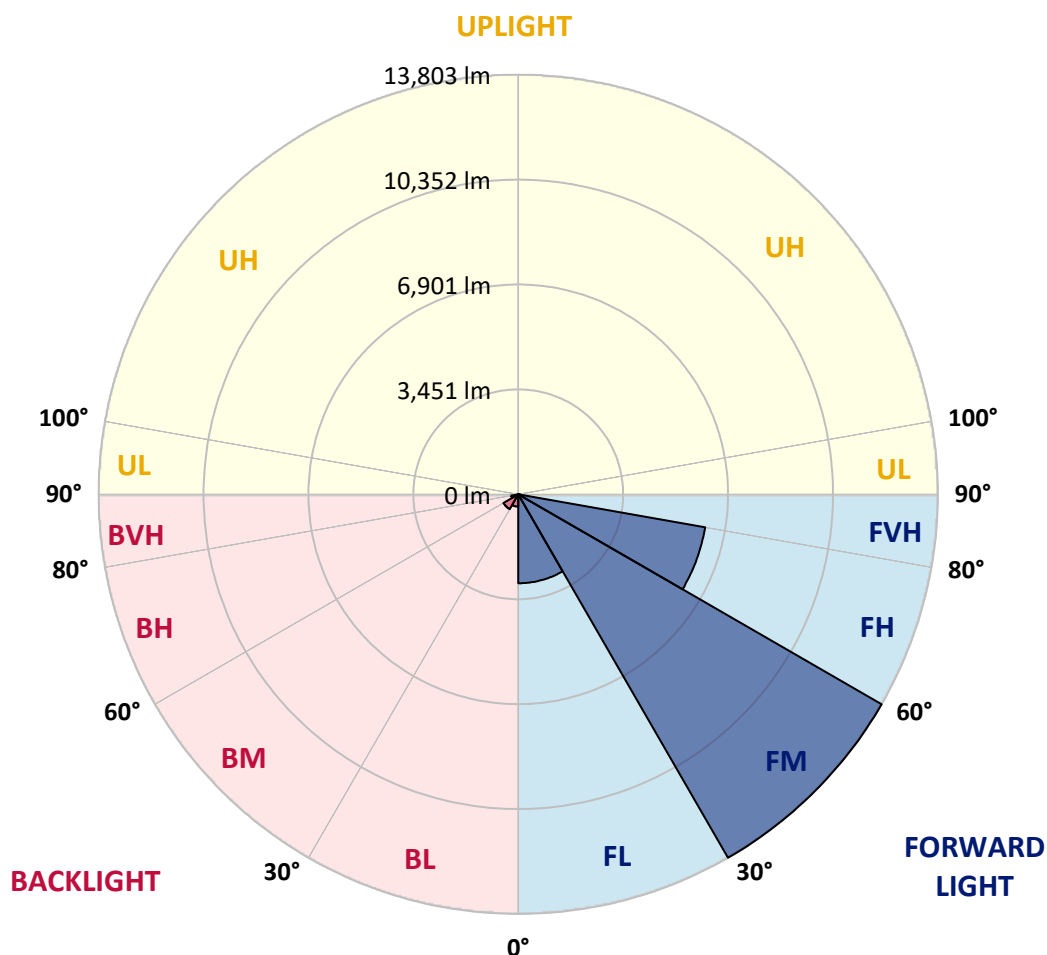


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2924.4	12.1			
FM (30°-60°)	13802.8	57.0			
FH (60°-80°)	6244.6	25.8			G3/7500
FVH (80°-90°)	54.1	0.2			G1/100
BL (0°-30°)	405.8	1.7	B1/500		
BM (30°-60°)	563.1	2.3	B1/1000		
BH (60°-80°)	232.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3
2.5°	3068.1	2999.1	3015.0	2970.4	2889.8	2724.1	2583.0	2449.2	2293.1	2287.8	2159.4
5°	4137.2	4078.8	4071.4	3981.1	3834.6	3553.3	3279.4	2967.3	2619.0	2593.6	2320.7
7.5°	5107.5	5060.8	5043.8	4936.6	4663.8	4389.9	4033.1	3574.5	3029.9	2983.2	2538.4
10°	5852.8	5830.5	5834.7	5758.3	5524.7	5269.9	4801.8	4216.8	3496.0	3423.8	2799.5
12.5°	6417.6	6422.9	6461.1	6414.4	6283.8	6094.8	5594.8	4901.6	4011.9	3913.2	3097.8
15°	6832.7	6859.2	6929.3	6987.7	6978.1	6814.6	6356.0	5596.9	4559.7	4450.4	3430.1
17.5°	7101.3	7131.0	7232.9	7362.4	7481.3	7443.1	7090.6	6267.9	5113.9	4987.6	3785.8
20°	7336.9	7372.0	7481.3	7652.2	7874.1	7921.9	7690.5	6918.7	5667.0	5513.1	4153.1
22.5°	7847.6	7846.5	7913.4	8013.2	8224.5	8347.6	8201.1	7522.7	6213.7	6053.4	4527.9
25°	8771.2	8736.2	8712.8	8634.3	8681.0	8757.4	8675.7	8087.5	6763.7	6601.2	4907.9
27.5°	9868.9	9890.2	9701.2	9489.9	9326.4	9247.9	9114.1	8610.9	7292.4	7114.0	5279.5
30°	11027.2	11033.5	10810.6	10541.0	10181.1	9882.7	9651.3	9110.9	7835.9	7641.6	5640.5
32.5°	12071.8	12030.4	11809.6	11442.3	10987.9	10652.4	10171.5	9669.4	8411.3	8223.4	6041.8
35°	12899.9	12851.1	12582.5	12248.1	11776.7	11439.1	10860.5	10226.7	9016.4	8832.8	6444.1
37.5°	13505.0	13447.7	13171.7	12827.7	12421.1	12224.7	11659.9	10832.9	9676.8	9479.3	6867.7
40°	13715.2	13665.3	13492.3	13240.7	12913.7	12869.1	12508.2	11530.4	10395.5	10185.3	7347.6
42.5°	13590.0	13541.1	13479.6	13394.6	13258.7	13301.2	13308.6	12325.6	11193.9	10986.8	7877.3
45°	13093.1	13049.6	13113.3	13237.5	13406.3	13616.5	14039.0	13180.2	12085.6	11864.8	8489.9
47.5°	12361.7	12329.8	12506.0	12816.0	13309.7	13889.3	14706.8	14078.3	13086.7	12881.9	9254.3
50°	11321.3	11315.9	11668.4	12234.3	12993.3	14021.0	15396.9	15099.6	14477.5	14262.0	10316.9
52.5°	9701.2	9711.8	10405.1	11310.6	12438.1	13931.8	15840.6	16411.8	16095.4	15871.4	11237.4
55°	8158.6	8222.3	8713.9	10019.7	11586.7	13600.6	15993.5	17024.3	16988.2	16775.9	11749.1
57.5°	6647.9	6763.7	7237.2	8457.0	10343.5	12837.3	15909.6	17289.8	17652.8	17490.4	12424.3
60°	5010.9	5064.0	5609.7	6749.9	8747.9	11444.4	15301.3	17434.1	18561.6	18449.1	13404.2
62.5°	3188.1	3320.8	3804.9	4904.7	6811.4	9510.1	14275.8	17432.0	19698.6	19760.2	14668.6
65°	1679.5	1834.5	2091.4	3039.5	4680.7	7349.7	12733.2	17268.5	21093.6	21179.6	15657.0
67.5°	905.6	950.2	1086.1	1577.6	2714.6	4979.1	10466.6	16461.7	21901.5	22015.1	15795.0
70°	662.5	686.9	737.8	872.7	1366.3	2891.9	7637.4	14632.5	20860.0	20817.6	14033.7
72.5°	508.5	546.7	585.0	639.1	785.6	1543.6	4755.1	11458.2	16644.3	16364.0	10490.0
75°	401.3	407.7	461.8	510.6	589.2	879.0	2111.6	6673.4	10158.8	9495.2	5439.8
77.5°	320.6	324.9	356.7	399.2	473.5	577.5	654.0	2625.4	3243.3	2894.0	1180.5
80°	190.0	200.6	265.4	307.9	392.8	364.1	238.9	570.1	506.4	458.6	198.5
82.5°	106.2	114.7	149.7	243.1	273.9	174.1	118.9	153.9	118.9	115.7	56.3
85°	0.0	5.3	96.6	150.8	111.5	38.2	49.9	51.0	35.0	32.9	22.3
87.5°	0.0	0.0	29.7	28.7	4.2	6.4	11.7	17.0	13.8	13.8	11.7
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°	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3
2.5°	2095.7	2038.3	1930.0	1823.9	1734.7	1661.5	1595.6	1569.1	1547.9	1544.7	1527.7
5°	2189.1	2073.4	1866.4	1696.5	1582.9	1502.2	1433.2	1390.7	1357.8	1345.1	1333.4
7.5°	2330.3	2155.1	1857.9	1662.5	1526.6	1390.7	1263.3	1125.3	1039.3	1006.4	987.3
10°	2502.3	2263.4	1889.7	1653.0	1415.2	1128.5	917.3	742.1	671.0	647.6	641.2
12.5°	2702.9	2398.2	1944.9	1593.5	1177.4	801.5	632.7	573.3	557.4	549.9	549.9
15°	2933.3	2545.8	1984.2	1421.5	870.5	606.2	547.8	520.2	503.2	493.7	494.7
17.5°	3169.0	2690.2	1965.1	1172.0	642.3	539.3	495.8	466.1	442.7	433.1	431.0
20°	3406.8	2823.9	1858.9	872.7	543.6	489.4	440.6	407.7	384.3	374.8	372.6
22.5°	3653.1	2937.5	1672.1	640.2	488.4	434.2	386.4	353.5	331.2	322.7	318.5
25°	3893.0	3029.9	1410.9	518.1	436.3	382.2	336.5	305.8	285.6	277.1	276.0
27.5°	4117.0	3088.3	1108.3	457.6	390.7	335.5	294.1	266.5	249.5	243.1	242.1
30°	4318.7	3093.6	819.6	413.0	350.3	295.1	256.9	232.5	217.6	211.3	209.1
32.5°	4522.6	3049.0	596.6	372.6	313.2	260.1	222.9	203.8	193.2	187.9	187.9
35°	4714.7	2946.0	465.0	337.6	277.1	226.1	196.4	182.6	176.2	170.9	170.9
37.5°	4902.6	2798.5	394.9	306.8	243.1	197.5	173.0	164.6	159.2	153.9	153.9
40°	5093.7	2612.7	358.8	278.1	215.5	175.2	153.9	146.5	141.2	137.0	135.9
42.5°	5328.3	2398.2	335.5	251.6	191.1	155.0	135.9	127.4	123.1	118.9	116.8
45°	5600.1	2213.5	316.4	225.1	170.9	138.0	117.8	109.3	103.0	97.7	96.6
47.5°	5991.9	2079.7	290.9	196.4	151.8	120.0	101.9	92.4	82.8	77.5	76.4
50°	6491.9	1969.3	258.0	170.9	132.7	101.9	84.9	73.3	64.8	59.5	59.5
52.5°	6740.3	1824.9	228.3	148.6	111.5	86.0	69.0	55.2	51.0	45.7	45.7
55°	6840.1	1714.5	198.5	126.3	92.4	71.1	54.1	42.5	39.3	36.1	35.0
57.5°	7120.4	1682.7	173.0	107.2	76.4	56.3	41.4	31.8	29.7	25.5	25.5
60°	7571.6	1698.6	149.7	91.3	61.6	43.5	30.8	24.4	22.3	18.0	18.0
62.5°	8058.9	1678.4	126.3	78.6	47.8	31.8	21.2	18.0	18.0	10.6	9.6
65°	8152.3	1494.8	108.3	64.8	37.2	23.4	13.8	11.7	15.9	2.1	0.0
67.5°	7566.3	1159.3	93.4	49.9	27.6	18.0	10.6	5.3	13.8	0.0	0.0
70°	6050.2	736.8	75.4	36.1	21.2	14.9	8.5	2.1	10.6	0.0	0.0
72.5°	4278.4	427.8	59.5	25.5	18.0	11.7	6.4	0.0	6.4	0.0	0.0
75°	2163.6	228.3	37.2	19.1	13.8	8.5	4.2	0.0	1.1	0.0	0.0
77.5°	468.2	106.2	23.4	13.8	9.6	5.3	2.1	0.0	0.0	0.0	0.0
80°	101.9	46.7	14.9	8.5	5.3	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	37.2	24.4	7.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.2	12.7	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	4.2	1.1	1.1	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)