

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: P322862

Luminaire Tested: **GAN-SA8D-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41045 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

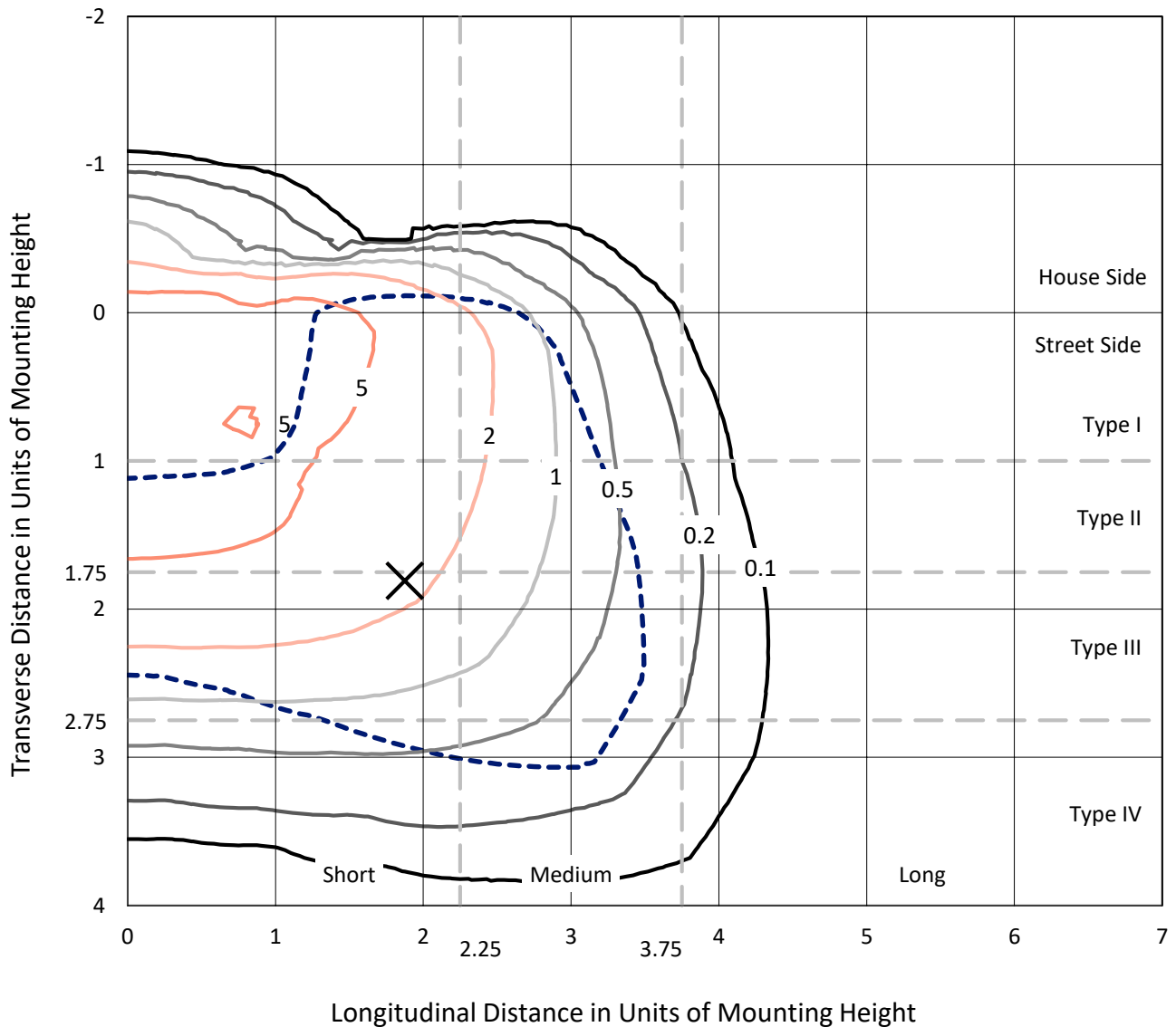
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

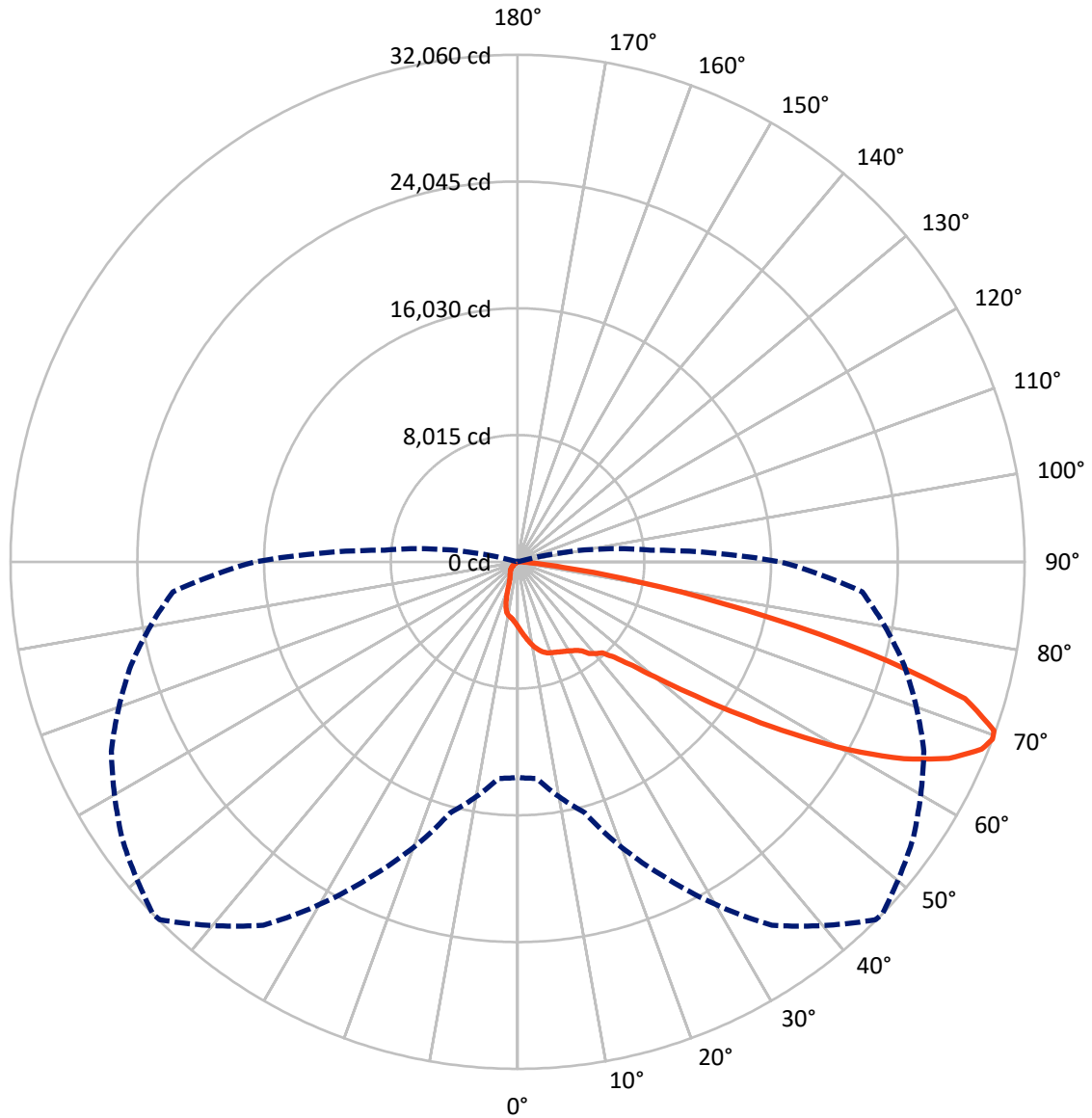
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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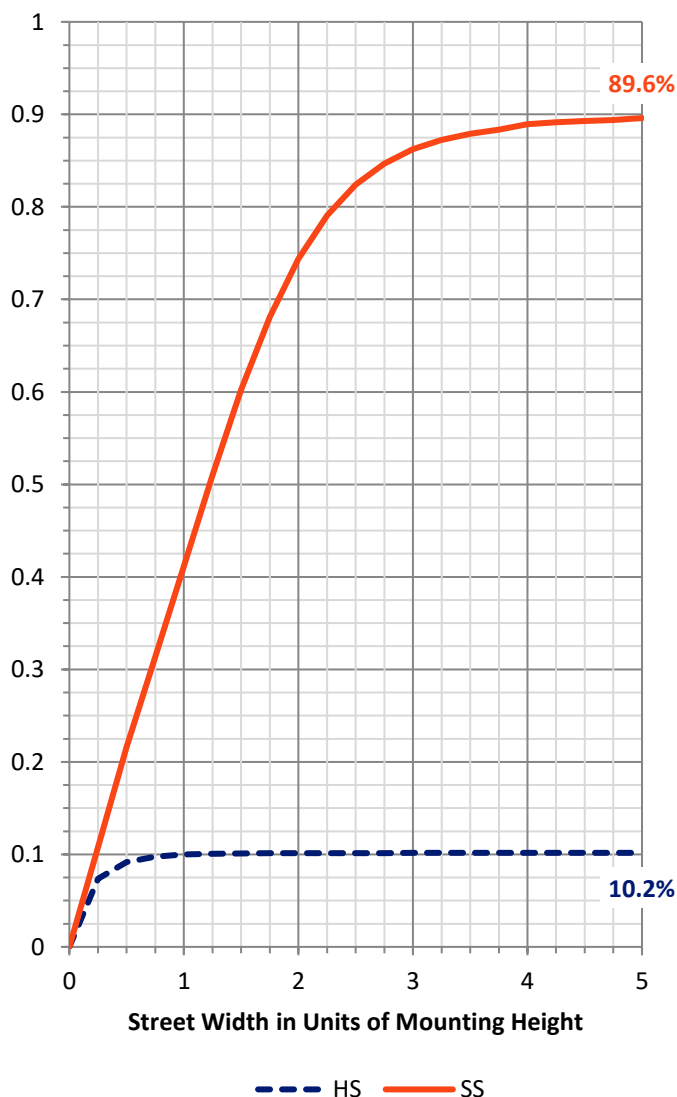
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4212.3	0.0	4212.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36832.7	0.0	36832.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	41045.0	0.0	41045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	1.0
10°-20°	1241.8	3.0
20°-30°	1953.0	4.8
30°-40°	2800.6	6.8
40°-50°	4840.5	11.8
50°-60°	9562.9	23.3
60°-70°	13365.0	32.6
70°-80°	6456.7	15.7
80°-90°	415.0	1.0
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°	41045.0	100.0
0°-180°	41045.0	100.0

Coefficient of Utilization

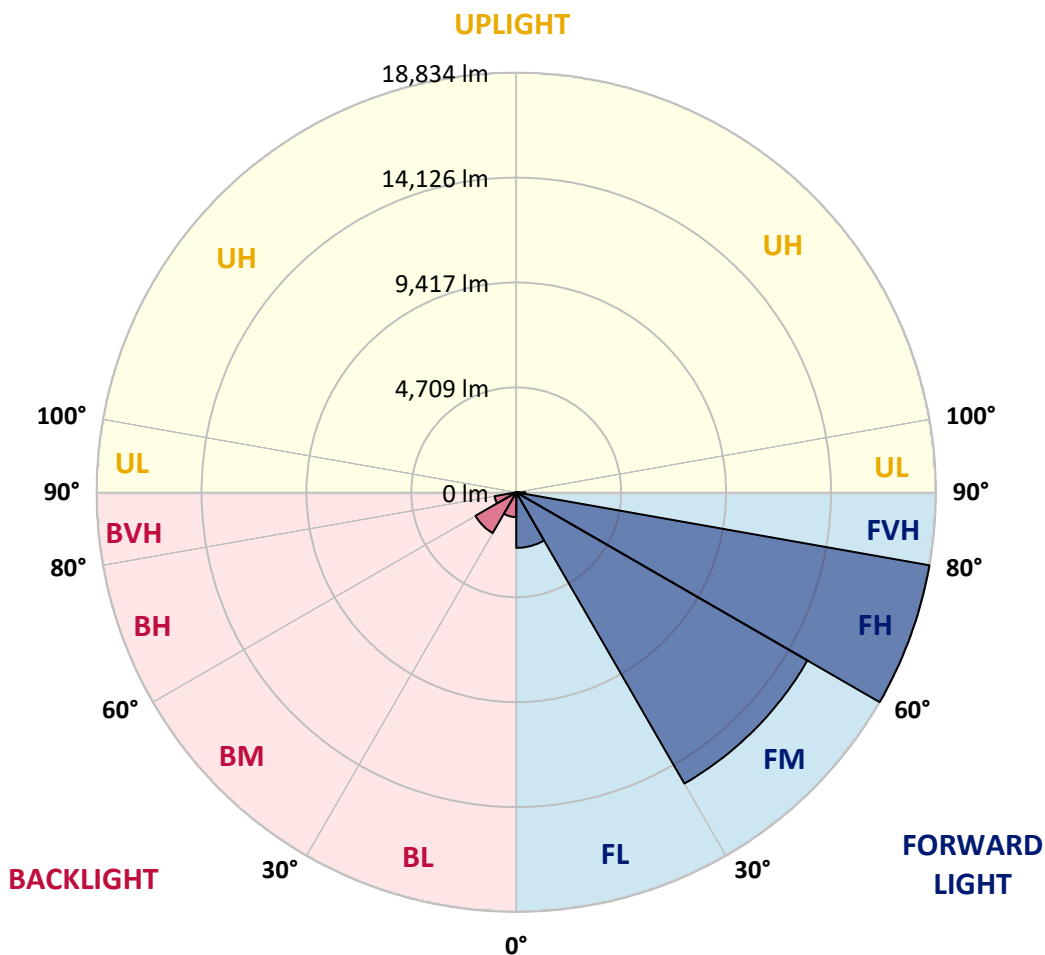


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.0	6.1			
FM (30°-60°)	15093.2	36.8			
FH (60°-80°)	18834.0	45.9			G5
FVH (80°-90°)	411.5	1.0			G3/500
BL (0°-30°)	1110.2	2.7	B3/2500		
BM (30°-60°)	2110.9	5.1	B2/2500		
BH (60°-80°)	987.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6
2.5°	4568.7	4562.9	4535.9	4524.4	4459.0	4420.5	4405.1	4357.0	4287.7	4218.4	4141.4
5°	5088.3	5086.3	5036.3	4988.2	4865.0	4749.5	4728.4	4616.8	4460.9	4314.6	4168.4
7.5°	5619.4	5594.4	5544.3	5452.0	5273.0	5088.3	5070.9	4913.1	4691.8	4480.1	4270.4
10°	6069.7	6054.3	5988.9	5848.4	5638.6	5428.9	5407.7	5213.3	4963.2	4703.4	4435.9
12.5°	6420.0	6408.4	6321.8	6146.7	5923.5	5706.0	5677.1	5503.9	5236.4	4945.8	4630.2
15°	6633.6	6627.8	6522.0	6335.3	6115.9	5927.3	5902.3	5750.3	5502.0	5197.9	4841.9
17.5°	6683.6	6685.5	6575.9	6387.3	6206.4	6071.6	6052.4	5936.9	5729.1	5427.0	5053.6
20°	6572.0	6595.1	6497.0	6333.4	6221.8	6150.6	6135.2	6065.9	5890.7	5605.9	5223.0
22.5°	6414.2	6425.7	6358.4	6248.7	6202.5	6216.0	6208.3	6169.8	6021.6	5759.9	5390.4
25°	6318.0	6318.0	6277.6	6185.2	6216.0	6298.7	6300.7	6293.0	6175.6	5948.5	5594.4
27.5°	6314.1	6302.6	6256.4	6187.1	6271.8	6398.8	6406.5	6458.5	6385.3	6177.5	5848.4
30°	6468.1	6454.6	6356.5	6266.0	6373.8	6510.4	6529.7	6643.2	6606.6	6425.7	6131.3
32.5°	6828.0	6779.8	6562.4	6414.2	6495.0	6658.6	6683.6	6864.5	6922.3	6731.7	6404.6
35°	7320.6	7168.6	6854.9	6695.2	6702.9	6874.1	6897.2	7162.8	7334.1	7012.7	6616.3
37.5°	8000.0	7924.9	7414.9	6987.7	7022.3	7282.1	7349.5	7638.2	7590.0	7166.7	6856.8
40°	9489.5	9372.1	8829.4	7807.5	7328.3	7613.1	7634.3	7788.3	7792.1	7515.0	7357.2
42.5°	11517.8	11469.7	10898.2	9295.1	7930.7	7834.4	7872.9	8132.7	8423.3	8250.1	8242.4
45°	13763.7	13738.7	13132.5	11269.6	9148.8	8560.0	8608.1	8956.4	9512.6	9551.1	9795.5
47.5°	15570.7	15559.2	15210.9	13473.1	11013.6	9789.7	9805.1	10174.6	11152.2	11635.2	12025.9
50°	17218.1	17273.9	16998.7	15857.5	13553.9	11716.1	11679.5	11925.8	13496.2	14287.1	14772.1
52.5°	19508.2	19587.1	18815.4	18082.2	16219.3	14106.2	14077.4	14335.2	16313.6	16906.3	16992.9
55°	21530.8	21396.1	20786.0	20574.3	19469.7	17058.3	17050.7	17277.7	19038.6	19290.7	19450.4
57.5°	22423.7	22371.8	22666.2	23151.2	22874.0	20547.4	20530.1	20356.9	21476.9	21503.8	21994.6
60°	22987.6	23051.1	23953.7	25449.0	26139.8	24302.0	24190.4	23133.8	23805.5	23745.8	24271.2
62.5°	22564.2	22689.3	24313.5	26805.7	28583.9	27579.3	27421.5	25678.0	25795.4	25589.4	26078.3
65°	20316.4	20510.8	23172.3	26549.8	29796.3	30140.8	29981.0	27923.8	27375.3	27036.6	26765.3
67.5°	16496.4	16611.9	19390.8	24323.2	29249.8	31668.8	31636.1	29892.5	28568.5	26792.2	24686.9
69°	13632.8	13746.4	16421.4	21979.2	28047.0	31996.0	32059.5	30523.7	28341.4	25306.6	21873.3
70°	11546.7	11668.0	14160.1	19970.0	26651.7	31843.9	31957.5	30464.1	27691.0	23586.1	19404.3
72.5°	6056.3	6160.2	8717.8	13757.9	21727.1	29240.1	29584.6	27889.2	23472.6	17129.6	11473.6
75°	1903.3	1962.9	3404.4	7191.7	14876.0	22735.5	22814.4	21877.2	16667.7	9422.1	4778.4
77.5°	725.5	708.2	1133.5	2650.0	7520.8	14316.0	14799.0	13671.3	8746.6	3331.2	1102.7
80°	390.7	392.6	588.9	1096.9	3217.7	7357.2	7765.2	6625.9	3108.0	1039.2	254.0
82.5°	169.4	177.0	331.0	581.2	1478.0	2713.5	2917.5	2428.7	1187.4	698.6	94.3
85°	36.6	40.4	159.7	315.6	602.4	762.1	798.6	787.1	756.3	542.7	36.6
87.5°	0.0	0.0	71.2	113.5	152.0	173.2	152.0	198.2	417.6	365.6	19.2
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°	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6	4112.6
2.5°	4116.4	4081.8	4022.1	3956.7	3910.5	3862.4	3823.9	3806.6	3787.3	3773.9	3791.2
5°	4108.7	4041.4	3925.9	3814.3	3733.4	3668.0	3614.1	3593.0	3571.8	3556.4	3554.5
7.5°	4176.1	4081.8	3904.7	3741.1	3616.0	3527.5	3454.4	3423.6	3398.6	3387.0	3377.4
10°	4305.0	4183.8	3947.1	3733.4	3571.8	3421.7	3263.9	3142.6	3063.7	3027.2	3013.7
12.5°	4472.4	4320.4	4027.9	3773.9	3539.1	3250.4	2915.5	2626.9	2440.2	2378.6	2342.1
15°	4668.7	4480.1	4133.7	3825.8	3419.8	2892.5	2324.7	1947.5	1774.3	1739.7	1701.2
17.5°	4857.3	4649.5	4260.7	3835.4	3158.0	2311.3	1703.1	1447.2	1379.8	1402.9	1408.7
20°	5022.8	4816.9	4385.8	3750.8	2682.7	1733.9	1318.3	1254.7	1279.8	1324.0	1331.7
22.5°	5190.2	4978.6	4501.3	3527.5	2074.6	1316.3	1187.4	1202.8	1227.8	1272.1	1279.8
25°	5394.2	5174.9	4609.1	3117.6	1556.9	1120.0	1127.7	1150.8	1175.8	1216.3	1220.1
27.5°	5629.0	5423.1	4680.3	2584.5	1154.7	1029.6	1054.6	1089.2	1114.3	1152.7	1160.4
30°	5940.8	5750.3	4703.4	2032.2	968.0	948.8	960.3	1002.6	1039.2	1073.8	1079.6
32.5°	6233.3	6073.6	4626.4	1533.8	896.8	873.7	873.7	898.7	941.1	973.8	981.5
35°	6502.7	6398.8	4380.1	1122.0	842.9	804.4	785.2	785.2	812.1	839.1	846.8
37.5°	6858.7	6854.9	3981.7	894.9	791.0	746.7	706.3	675.5	665.9	671.6	675.5
40°	7468.8	7474.6	3462.1	802.5	746.7	687.0	625.4	569.6	517.7	500.4	498.4
42.5°	8421.4	8334.8	2917.5	758.2	708.2	625.4	533.1	458.0	377.2	352.2	350.3
45°	9934.0	9420.2	2340.1	717.8	667.8	556.2	440.7	338.7	273.3	254.0	254.0
47.5°	12137.5	10846.2	1812.8	673.6	613.9	477.3	332.9	244.4	200.1	190.5	192.4
50°	14416.1	12243.4	1389.5	617.7	548.5	394.5	246.3	177.0	152.0	152.0	154.0
52.5°	16436.8	13267.2	1083.5	558.1	467.6	309.8	186.7	138.6	127.0	125.1	127.0
55°	18328.5	13927.3	829.4	488.8	371.4	230.9	142.4	113.5	105.8	102.0	100.1
57.5°	20152.9	14254.4	621.6	394.5	269.4	167.4	113.5	96.2	88.5	82.8	80.8
60°	21367.2	13988.8	427.2	290.6	186.7	121.2	94.3	82.8	73.1	67.4	65.4
62.5°	22052.3	13263.3	275.2	209.8	132.8	90.4	75.1	69.3	55.8	50.0	50.0
65°	21775.2	12066.3	192.4	150.1	96.2	67.4	55.8	55.8	40.4	32.7	30.8
67.5°	19296.5	10193.8	146.3	111.6	69.3	50.0	42.3	48.1	25.0	15.4	15.4
69°	16602.3	8448.3	125.1	92.4	57.7	40.4	36.6	44.3	17.3	11.5	9.6
70°	14429.5	7287.9	113.5	80.8	48.1	34.6	32.7	42.3	17.3	9.6	7.7
72.5°	8633.1	4064.4	86.6	57.7	30.8	26.9	26.9	48.1	17.3	9.6	7.7
75°	3489.0	1431.8	63.5	40.4	23.1	23.1	32.7	61.6	15.4	7.7	5.8
77.5°	791.0	313.7	36.6	25.0	15.4	23.1	38.5	48.1	9.6	3.8	0.0
80°	192.4	77.0	23.1	15.4	9.6	17.3	28.9	26.9	1.9	0.0	0.0
82.5°	63.5	26.9	9.6	7.7	1.9	5.8	13.5	7.7	0.0	0.0	0.0
85°	26.9	15.4	3.8	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.3	5.8	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)