

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: McGRAW-EDISON

Report Number: P452326

Luminaire Tested: **GALN-SA3B-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 12386 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

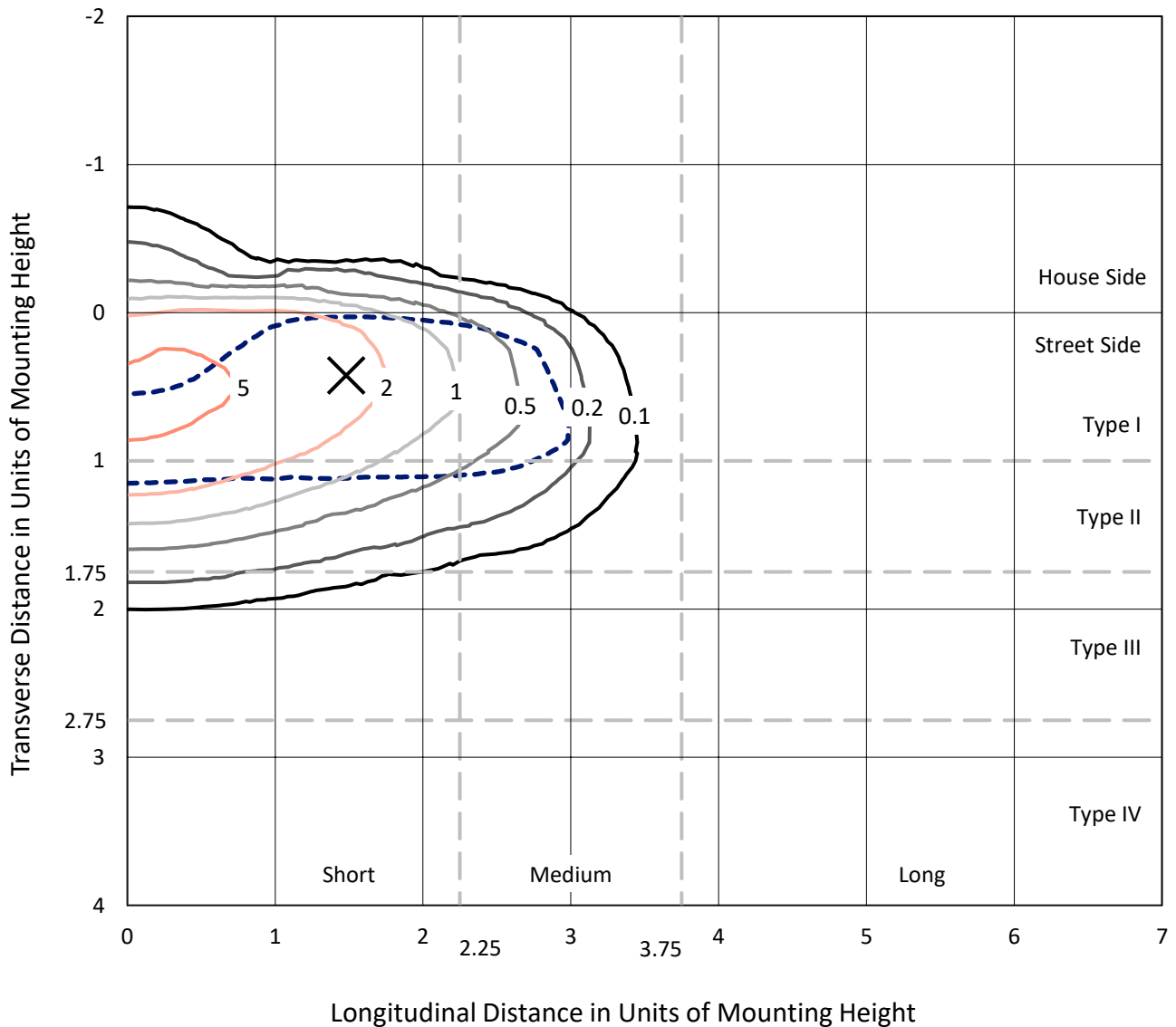
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

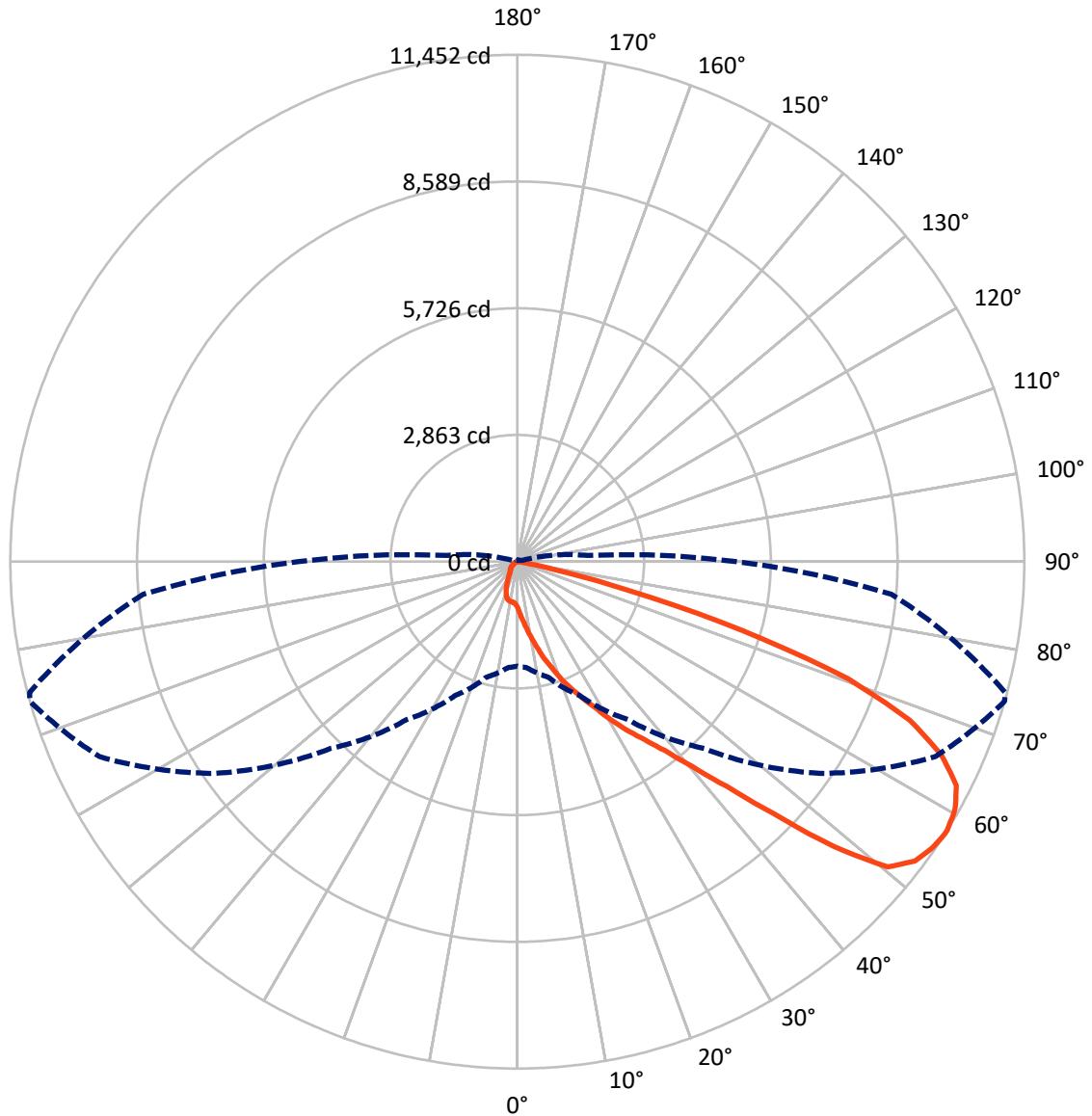
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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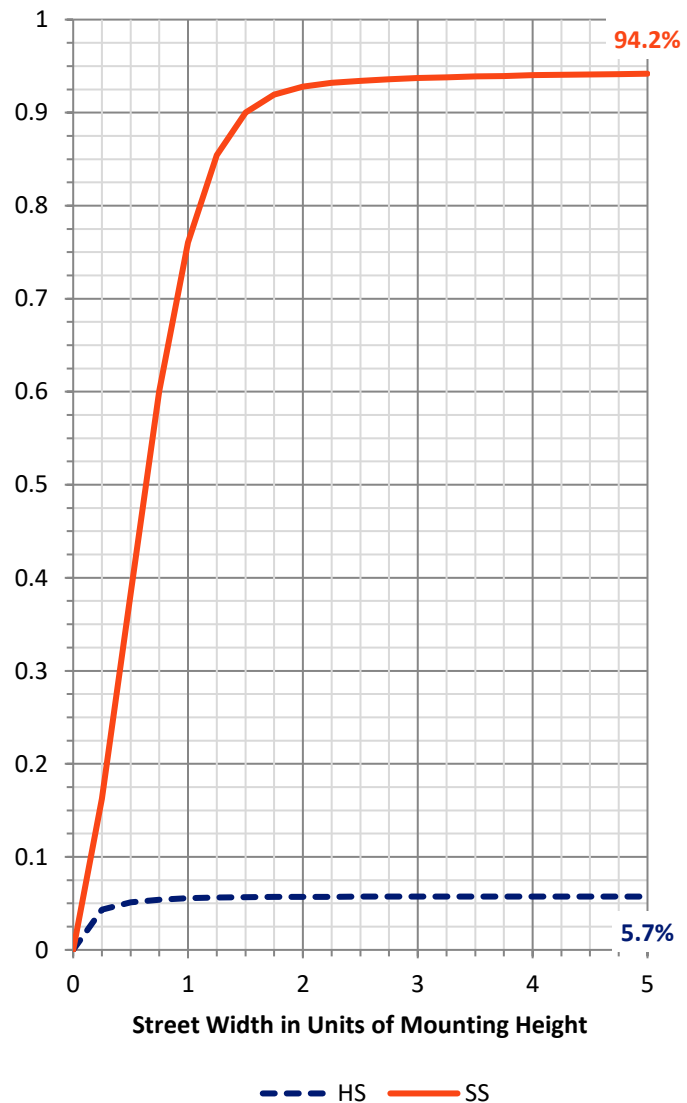
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.4	0.0	714.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	11671.6	0.0	11671.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	12386.0	0.0	12386.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	1.0
10°-20°	493.5	4.0
20°-30°	1056.0	8.5
30°-40°	1940.9	15.7
40°-50°	2975.4	24.0
50°-60°	3147.6	25.4
60°-70°	2055.5	16.6
70°-80°	561.6	4.5
80°-90°	30.2	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°	12386.0	100.0
0°-180°	12386.0	100.0



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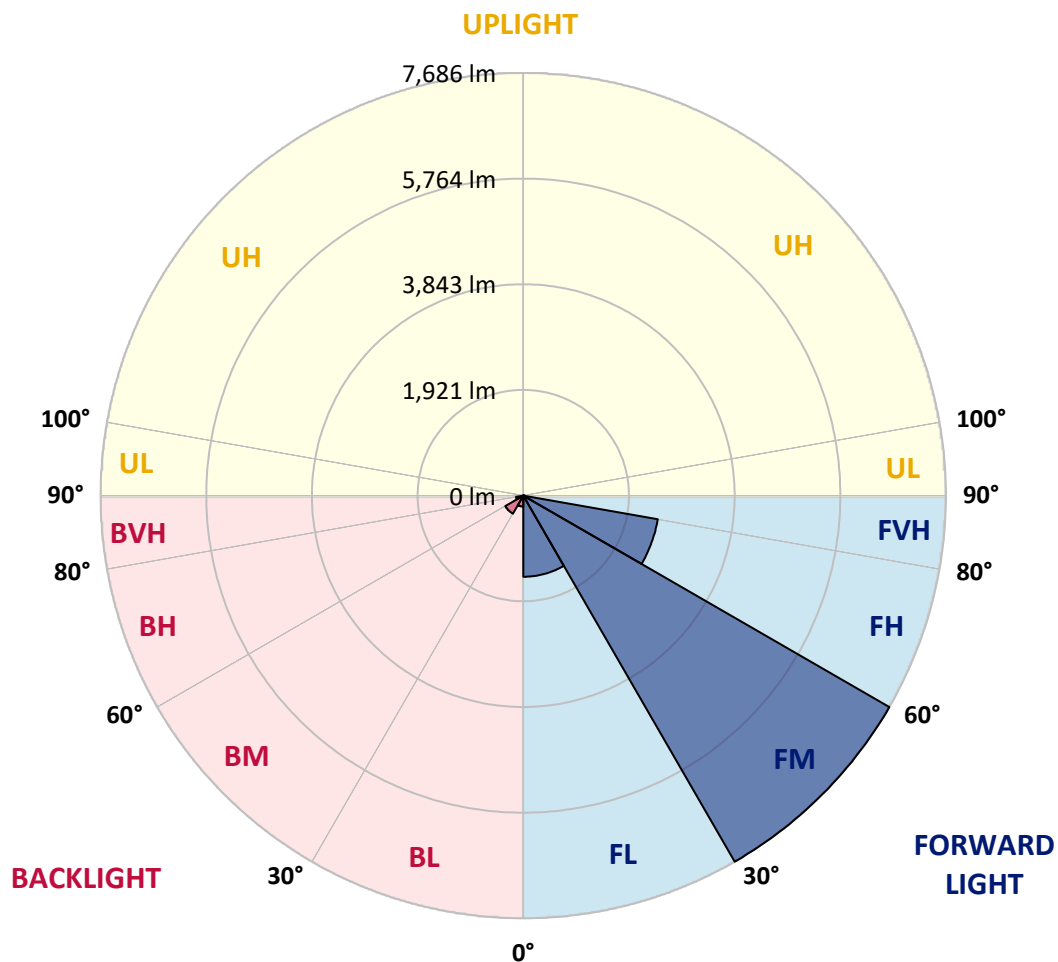
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1475.2	11.9			
FM (30°-60°)	7685.7	62.1			
FH (60°-80°)	2483.0	20.0			G2/5000
FVH (80°-90°)	27.7	0.2			G1/100
BL (0°-30°)	199.6	1.6	B1/500		
BM (30°-60°)	378.2	3.1	B1/1000		
BH (60°-80°)	134.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3
2.5°	1517.9	1504.2	1476.9	1467.5	1427.3	1364.8	1310.1	1236.6	1178.4	1172.4	1102.3
5°	2032.7	2001.9	1989.1	1927.5	1830.9	1740.3	1584.6	1466.6	1330.6	1320.4	1179.3
7.5°	2528.7	2486.0	2473.1	2415.0	2302.1	2159.3	1957.5	1742.8	1527.3	1507.7	1282.7
10°	2887.9	2893.9	2870.8	2832.3	2740.8	2595.4	2346.6	2053.2	1746.2	1721.4	1399.0
12.5°	3145.3	3144.4	3148.7	3147.9	3099.1	2988.8	2727.1	2389.3	1987.4	1938.7	1532.5
15°	3312.9	3315.5	3328.3	3372.8	3377.9	3309.5	3091.4	2710.9	2267.0	2206.3	1677.0
17.5°	3482.2	3500.2	3520.7	3562.6	3600.2	3572.9	3418.9	3046.1	2520.2	2474.8	1831.8
20°	3761.9	3786.7	3774.7	3800.3	3820.0	3822.6	3703.7	3355.7	2827.2	2751.1	2008.8
22.5°	4209.1	4208.3	4177.5	4131.3	4092.8	4091.1	3983.3	3673.8	3105.9	3032.4	2186.6
25°	4774.4	4776.9	4717.1	4585.4	4489.6	4372.4	4248.4	3952.6	3404.4	3313.8	2373.9
27.5°	5422.6	5406.3	5315.7	5134.4	4944.5	4744.4	4565.7	4276.7	3720.8	3645.6	2588.6
30°	6004.9	5999.0	5892.9	5671.4	5421.7	5220.8	4961.6	4682.9	4130.4	4038.1	2828.9
32.5°	6547.1	6555.7	6408.6	6179.4	5938.2	5706.5	5432.8	5071.1	4532.4	4401.5	3090.6
35°	6970.4	6979.0	6826.8	6636.1	6388.1	6195.6	5934.8	5485.0	4929.2	4818.8	3391.6
37.5°	7196.2	7207.3	7119.2	6975.6	6820.8	6724.1	6481.3	6017.8	5411.5	5344.8	3747.3
40°	7238.9	7251.8	7213.3	7174.8	7166.3	7235.5	7164.5	6645.5	6080.2	5975.9	4277.5
42.5°	7110.7	7127.8	7144.9	7230.4	7404.8	7658.8	7906.0	7497.2	6941.3	6801.1	4925.7
45°	6773.7	6772.0	6839.6	7061.1	7451.9	7994.1	8680.7	8563.6	8114.6	7947.9	5841.6
47.5°	6197.4	6188.8	6335.0	6650.6	7259.5	8055.6	9312.7	9858.3	9612.0	9458.1	6825.9
50°	5319.1	5361.0	5591.0	6031.5	6781.4	7869.2	9507.7	10707.5	10840.9	10677.6	7621.2
52.5°	4290.3	4288.6	4649.5	5247.3	6073.4	7458.7	9371.7	10861.4	11240.2	11115.4	8012.9
55°	3175.2	3197.5	3572.9	4175.8	5154.1	6709.6	8927.9	10703.2	11392.5	11304.4	8271.1
57°	2362.0	2401.3	2702.3	3340.3	4353.6	5968.2	8337.0	10420.1	11452.3	11404.4	8485.8
57.5°	2204.6	2206.3	2499.6	3079.4	4119.3	5683.4	8167.7	10302.1	11450.6	11424.1	8520.8
60°	1357.1	1399.9	1602.6	2081.5	3015.3	4435.7	7032.9	9624.0	11361.7	11400.2	8670.5
62.5°	812.4	830.4	962.1	1254.5	1943.8	3237.6	5755.2	8756.0	11129.9	11247.1	8660.2
65°	522.5	526.8	586.6	759.4	1215.2	2188.4	4434.9	7609.2	10530.5	10746.0	8321.6
67.5°	403.6	410.5	434.4	498.6	704.7	1363.1	3136.7	6385.5	9560.7	9838.6	7500.6
70°	358.3	361.7	370.3	390.8	466.1	769.6	1951.5	4988.2	7928.2	8006.9	5869.8
72.5°	292.5	301.9	328.4	335.2	369.4	480.6	1086.1	3348.0	5326.8	5346.5	3283.8
75°	226.6	228.3	267.7	287.3	311.3	330.9	484.9	1688.1	2558.6	2421.8	1265.6
77.5°	169.3	177.0	195.0	219.8	254.0	236.9	217.2	636.2	794.4	779.9	367.7
80°	108.6	112.9	136.0	165.0	197.5	154.8	122.3	186.4	174.5	179.6	88.1
82.5°	54.7	55.6	87.2	134.3	125.7	77.8	77.0	76.1	65.0	64.1	41.0
85°	6.0	12.8	56.4	77.0	56.4	25.7	35.9	35.1	34.2	35.1	23.9
87.5°	0.9	0.9	9.4	11.1	7.7	8.6	10.3	11.1	13.7	12.8	10.3
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°	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3
2.5°	1068.1	1033.9	970.6	909.9	864.6	835.5	797.9	784.2	764.5	761.9	752.5
5°	1114.3	1049.3	939.0	851.7	781.6	728.6	682.4	643.9	613.2	606.3	609.7
7.5°	1180.1	1083.5	929.6	810.7	713.2	622.6	549.0	503.7	471.2	459.2	460.9
10°	1254.5	1128.8	927.9	767.1	618.3	507.1	426.7	386.5	367.7	360.9	353.2
12.5°	1342.6	1181.0	923.6	699.5	514.0	404.5	347.2	323.3	305.3	300.2	300.2
15°	1441.8	1236.6	903.1	615.7	417.3	334.4	295.9	277.1	271.1	266.0	266.0
17.5°	1545.3	1291.3	860.3	512.2	346.3	286.5	262.5	251.4	242.9	236.9	236.9
20°	1663.3	1345.2	791.9	420.7	292.5	255.7	236.9	224.1	217.2	212.1	210.4
22.5°	1775.3	1388.8	704.7	345.5	254.8	230.0	212.9	199.3	192.4	189.8	189.8
25°	1891.6	1415.3	599.5	285.6	232.6	208.7	189.8	178.7	172.7	171.0	170.2
27.5°	2004.5	1430.7	507.1	249.7	212.1	189.0	171.0	162.5	156.5	154.8	155.6
30°	2141.3	1433.3	417.3	224.1	194.1	170.2	153.9	146.2	142.8	141.1	140.2
32.5°	2279.9	1429.8	350.6	208.7	177.0	153.9	140.2	134.3	131.7	129.1	129.1
35°	2435.5	1411.9	298.5	193.3	160.8	140.2	128.3	123.1	119.7	117.2	116.3
37.5°	2628.8	1402.5	268.5	176.2	146.2	127.4	116.3	111.2	108.6	105.2	104.3
40°	2933.2	1444.4	259.1	160.8	131.7	115.4	105.2	99.2	95.8	92.4	91.5
42.5°	3312.9	1517.9	243.7	145.4	118.9	104.3	94.1	87.2	81.2	77.0	75.3
45°	3804.6	1614.5	219.8	129.1	107.8	92.4	83.0	74.4	66.7	63.3	62.4
47.5°	4320.3	1707.8	198.4	116.3	95.8	82.1	71.8	62.4	55.6	53.0	52.2
50°	4636.7	1726.6	184.7	101.8	83.8	71.0	60.7	52.2	47.9	45.3	45.3
52.5°	4781.2	1696.6	165.9	88.9	72.7	62.4	52.2	45.3	42.8	41.0	40.2
55°	4882.1	1650.5	141.1	77.0	62.4	53.0	46.2	41.0	37.6	35.9	35.1
57°	4941.1	1588.0	122.3	67.6	53.9	46.2	41.0	36.8	33.4	29.9	29.9
57.5°	4943.7	1564.1	117.2	66.7	51.3	44.5	40.2	35.9	31.6	28.2	27.4
60°	4867.6	1399.9	94.1	56.4	41.0	37.6	33.4	28.2	22.2	18.8	18.0
62.5°	4623.0	1191.2	77.8	47.9	33.4	29.1	23.9	21.4	15.4	11.1	11.1
65°	4252.7	966.3	66.7	38.5	27.4	21.4	16.2	15.4	9.4	5.1	4.3
67.5°	3717.4	752.5	56.4	31.6	23.1	15.4	11.1	10.3	5.1	1.7	0.0
70°	2832.3	513.1	47.0	25.7	17.1	11.1	7.7	6.0	3.4	0.9	0.0
72.5°	1632.5	282.2	39.3	19.7	12.8	8.6	6.0	3.4	3.4	0.0	0.0
75°	583.2	121.4	29.9	14.5	10.3	6.8	4.3	1.7	2.6	0.9	0.0
77.5°	185.6	65.0	19.7	11.1	8.6	5.1	3.4	1.7	1.7	0.9	0.0
80°	54.7	34.2	12.0	9.4	6.0	4.3	2.6	0.9	1.7	0.9	0.0
82.5°	29.9	17.1	9.4	6.8	6.0	3.4	2.6	0.9	0.9	0.9	0.0
85°	15.4	10.3	7.7	6.8	6.0	3.4	2.6	0.9	0.0	0.9	0.9
87.5°	8.6	7.7	7.7	6.8	6.0	4.3	2.6	0.9	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)