

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: P453274

Luminaire Tested: **GALN-SA4B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18516 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

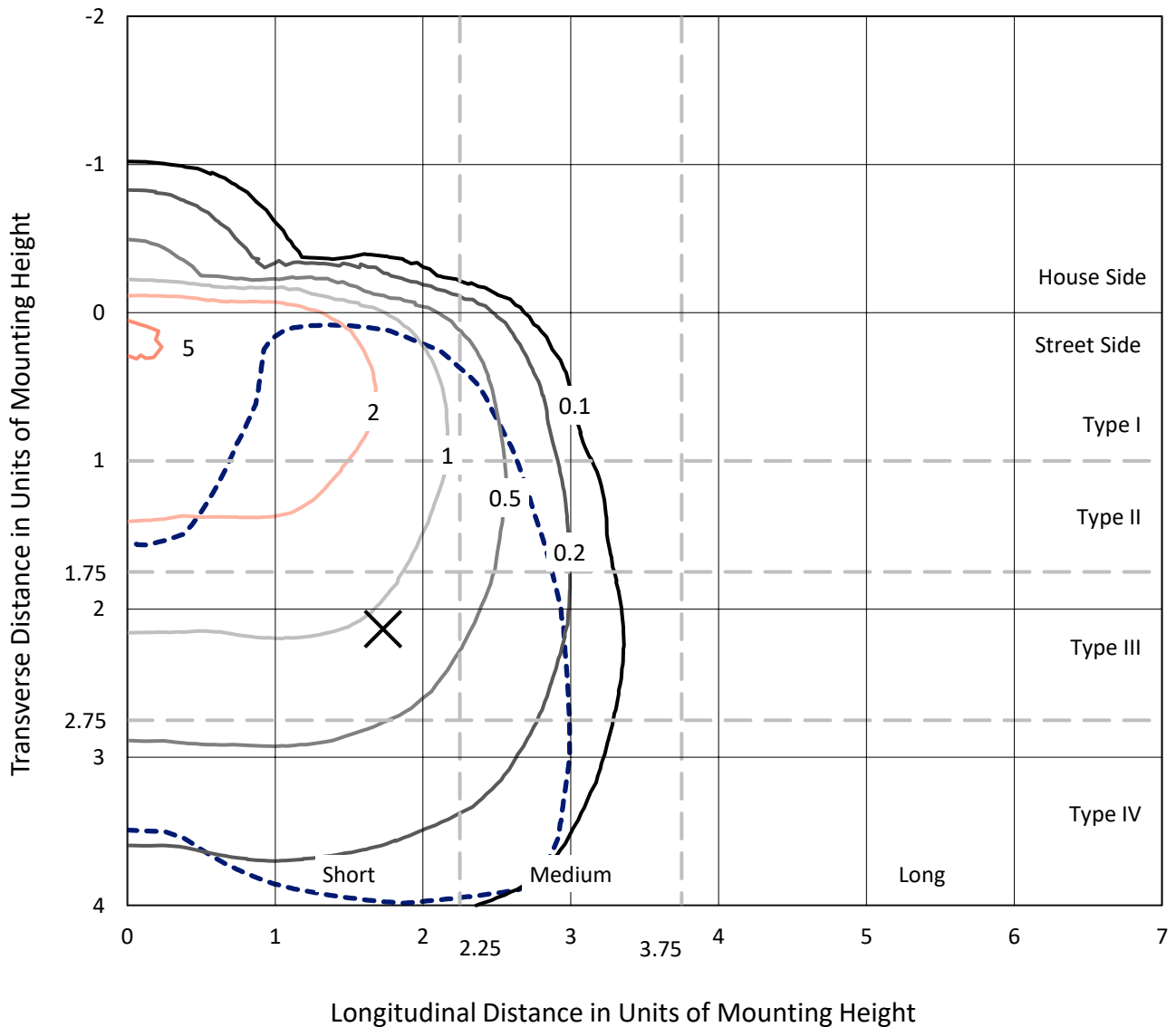
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

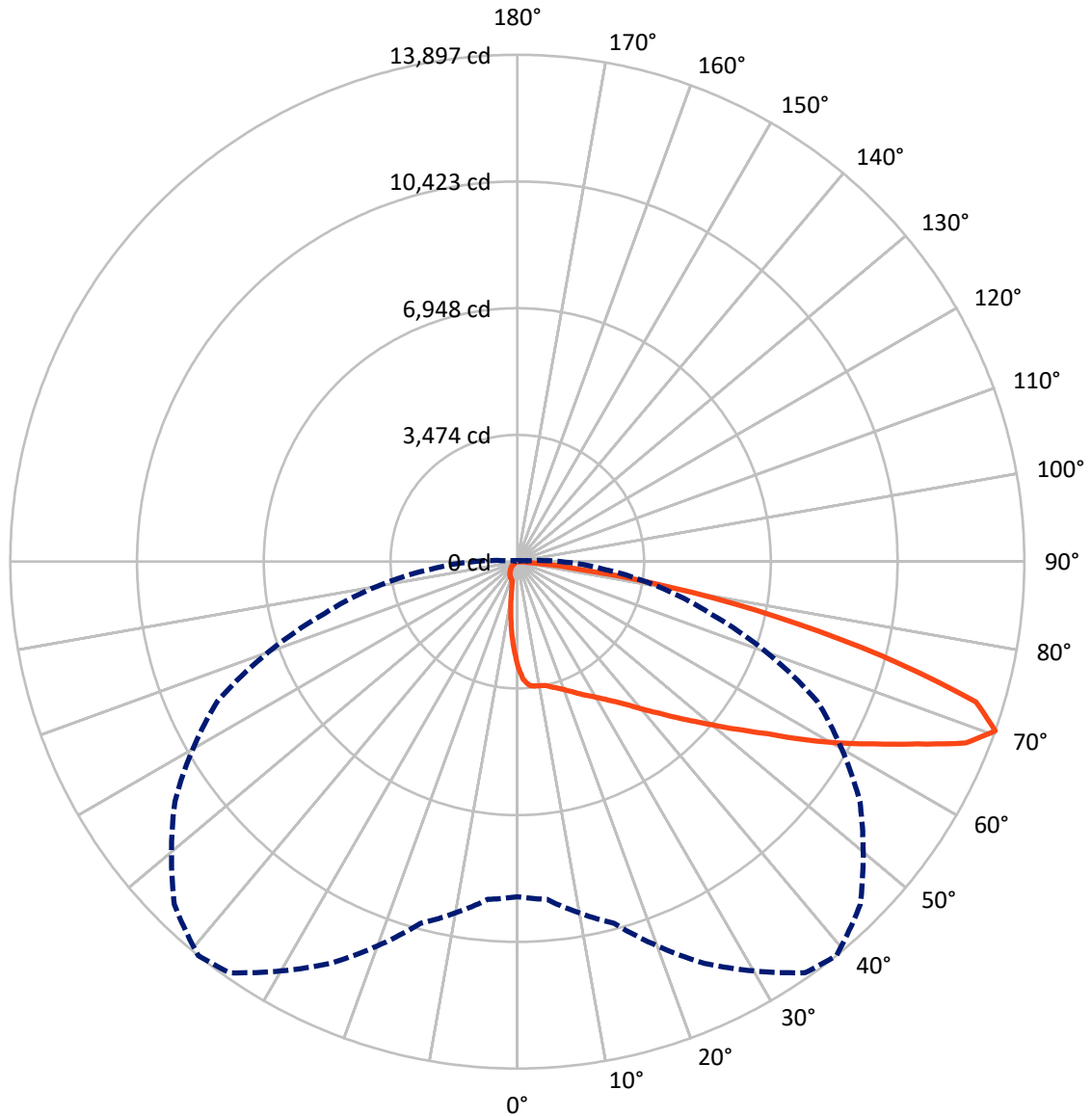
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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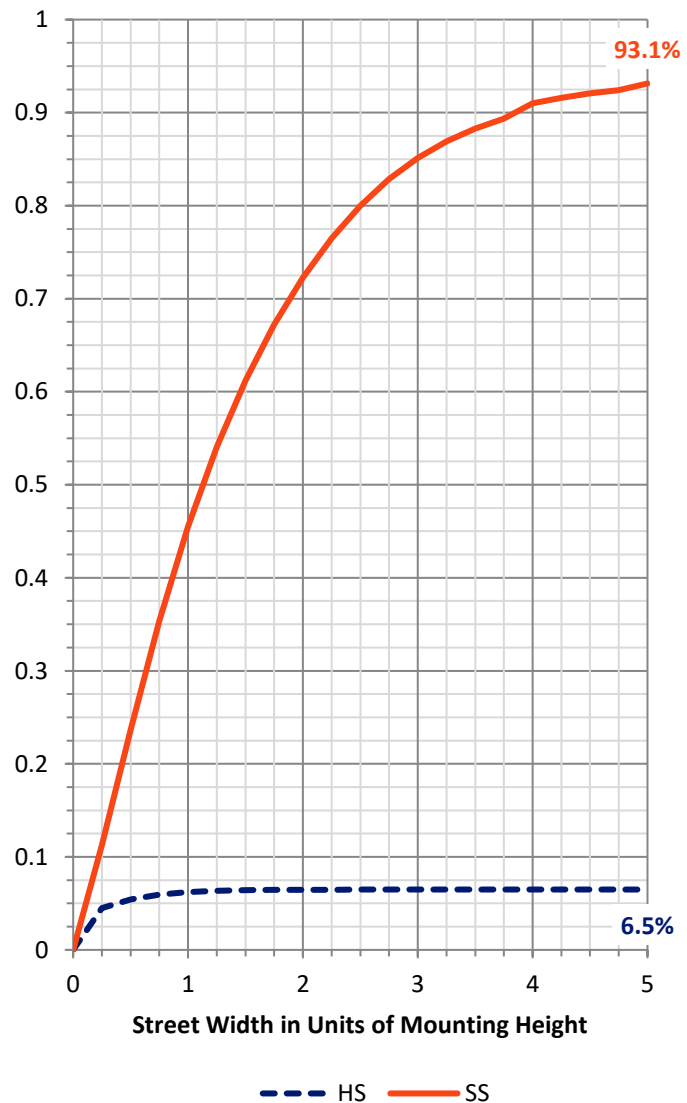
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1207.3	0.0	1207.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17308.7	0.0	17308.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	18516.0	0.0	18516.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.3
10°-20°	640.4	3.5
20°-30°	1072.8	5.8
30°-40°	1663.8	9.0
40°-50°	2636.6	14.2
50°-60°	3864.9	20.9
60°-70°	4953.9	26.8
70°-80°	3112.9	16.8
80°-90°	324.3	1.8
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°	18516.0	100.0
0°-180°	18516.0	100.0



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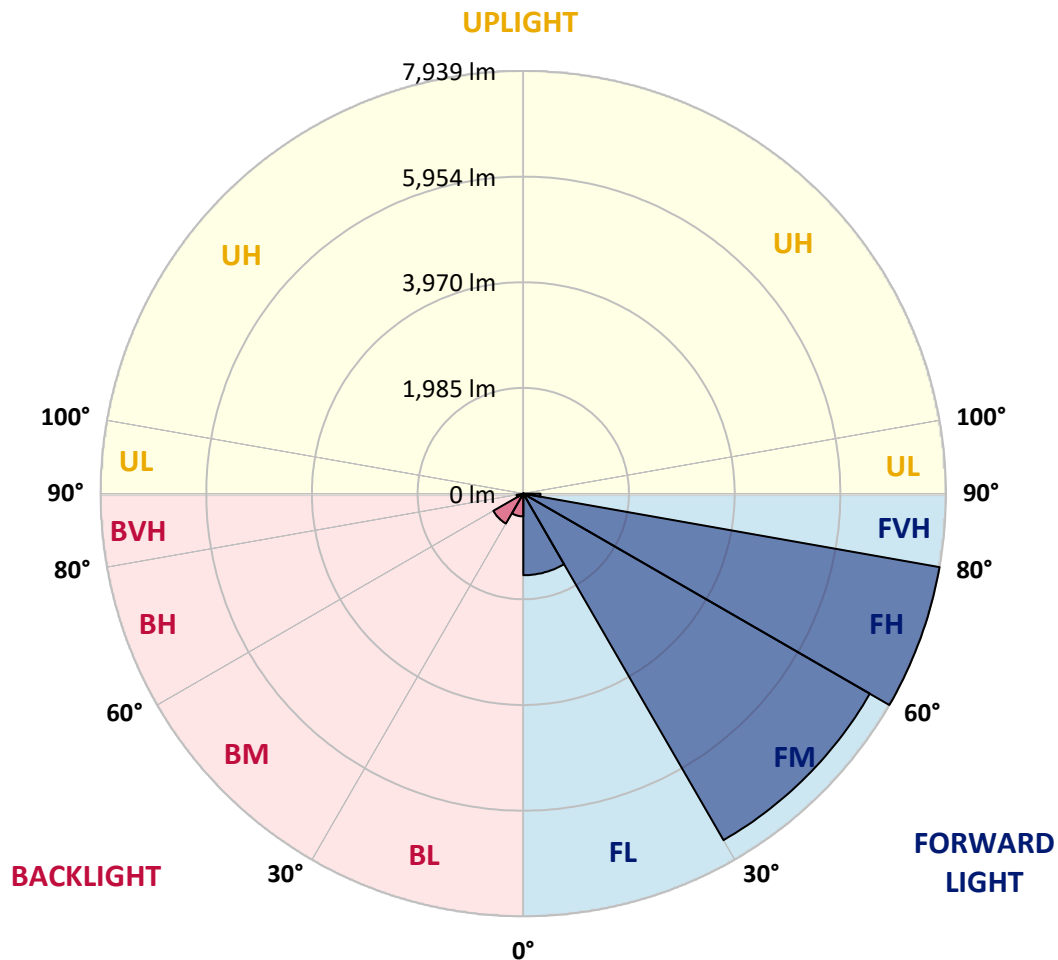
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.1	8.3			
FM (30°-60°)	7515.6	40.6			
FH (60°-80°)	7939.1	42.9			G4/12000
FVH (80°-90°)	321.9	1.7			G3/500
BL (0°-30°)	427.5	2.3	B1/500		
BM (30°-60°)	649.7	3.5	B1/1000		
BH (60°-80°)	127.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1
2.5°	3338.3	3327.1	3312.2	3294.8	3245.0	3236.3	3206.4	3143.0	3067.1	3004.8	2919.0
5°	3496.3	3502.5	3491.3	3460.2	3424.2	3403.0	3365.7	3267.4	3169.1	3043.4	2902.8
7.5°	3532.4	3544.8	3531.2	3501.3	3466.5	3444.1	3414.2	3329.6	3215.1	3072.0	2879.2
10°	3528.7	3543.6	3534.9	3507.5	3478.9	3457.7	3425.4	3358.2	3266.1	3115.6	2886.6
12.5°	3522.5	3542.4	3541.1	3527.4	3503.8	3487.6	3467.7	3408.0	3322.1	3179.0	2927.7
15°	3505.0	3529.9	3552.3	3563.5	3564.8	3564.8	3539.9	3476.4	3394.3	3262.4	2981.2
17.5°	3512.5	3541.1	3597.1	3629.5	3651.9	3649.4	3623.2	3554.8	3464.0	3348.3	3037.2
20°	3558.5	3597.1	3675.5	3740.2	3762.6	3755.1	3720.3	3640.7	3537.4	3421.7	3091.9
22.5°	3671.8	3706.6	3804.9	3880.8	3897.0	3877.1	3827.3	3719.0	3625.7	3501.3	3157.9
25°	3841.0	3882.0	3972.9	4030.1	4030.1	4018.9	3949.2	3822.3	3725.3	3612.0	3243.7
27.5°	4046.3	4081.1	4170.7	4221.7	4191.9	4159.5	4089.8	3936.8	3843.5	3751.4	3347.0
30°	4254.1	4276.5	4371.0	4393.4	4362.3	4321.3	4246.6	4093.6	4011.4	3940.5	3496.3
32.5°	4450.7	4499.2	4577.6	4572.6	4530.3	4510.4	4441.9	4278.9	4232.9	4225.4	3705.4
35°	4647.2	4684.6	4754.3	4771.7	4734.3	4730.6	4680.8	4560.1	4561.4	4609.9	4031.3
37.5°	4816.5	4850.1	4932.2	4970.7	4978.2	4996.9	4977.0	4897.3	5010.6	5143.7	4463.1
40°	4958.3	5005.6	5110.1	5177.3	5254.4	5322.9	5326.6	5344.0	5571.7	5800.7	5026.7
42.5°	5069.0	5135.0	5286.8	5411.2	5587.9	5675.0	5744.7	5840.5	6223.7	6565.9	5691.2
45°	5213.4	5289.3	5478.4	5673.7	5950.0	6093.1	6190.1	6446.4	6990.2	7456.7	6373.0
47.5°	5452.3	5492.1	5684.9	5969.9	6333.2	6537.3	6726.4	7114.6	7812.6	8230.7	6940.4
50°	5759.6	5785.7	5931.3	6327.0	6797.3	7066.1	7410.7	7867.3	8666.1	8872.7	7261.4
52.5°	6099.3	6108.0	6217.5	6720.2	7317.4	7655.8	8041.5	8605.2	9361.7	9330.6	7474.2
55°	6493.7	6481.3	6574.6	7146.9	7933.3	8320.2	8769.4	9360.4	9965.1	9655.3	7596.1
57.5°	6945.4	6911.8	7002.6	7713.1	8722.1	9185.0	9641.6	10012.4	10433.0	9927.8	7654.6
60°	7418.2	7351.0	7459.2	8348.9	9651.6	10090.8	10470.3	10569.8	10925.7	10144.3	7553.8
62.5°	7795.2	7796.4	7998.0	9025.7	10607.2	10991.6	11193.2	11282.8	11350.0	10097.0	7023.7
65°	8383.7	8403.6	8725.9	9965.1	11713.3	12046.8	12184.9	11893.7	11368.6	9509.7	6227.4
67.5°	8990.9	9054.4	9644.1	11259.2	12991.1	13259.9	13082.0	12011.9	10861.0	8169.7	4721.9
70°	9188.7	9293.2	10265.0	12150.0	13757.6	13896.9	13294.7	11460.7	9079.2	5462.2	2376.5
72.5°	8419.8	8589.0	9907.9	11825.3	13268.6	13147.9	11895.0	9611.8	5772.0	2074.2	725.4
75°	5937.5	6012.2	8234.4	9809.6	10671.9	10329.7	9048.1	6196.3	2374.0	582.3	248.8
77.5°	3065.8	3029.7	4897.3	6508.6	7611.0	7256.4	5925.1	3207.7	899.6	242.6	154.3
80°	1585.2	1611.3	2118.9	3410.5	4646.0	4275.2	3159.1	1486.9	479.0	134.4	118.2
82.5°	888.4	833.6	1218.1	1489.4	2172.4	1703.4	1211.9	1052.6	209.0	80.9	112.0
85°	161.8	169.2	668.2	805.0	754.0	479.0	390.7	703.0	61.0	44.8	78.4
87.5°	2.5	2.5	129.4	231.4	146.8	67.2	123.2	100.8	12.4	17.4	13.7
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°	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1
2.5°	2875.4	2828.2	2739.8	2652.7	2542.0	2451.2	2390.2	2326.7	2262.0	2267.0	2281.9
5°	2825.7	2743.6	2569.4	2385.2	2208.5	2049.3	1892.5	1751.9	1694.7	1642.4	1644.9
7.5°	2775.9	2660.2	2405.1	2116.5	1848.9	1577.7	1381.1	1219.4	1133.5	1068.8	1050.1
10°	2753.5	2600.5	2254.6	1857.7	1478.2	1182.0	929.4	797.6	695.5	663.2	671.9
12.5°	2763.5	2570.6	2118.9	1623.7	1172.1	823.7	647.0	579.8	557.4	553.7	551.2
15°	2782.1	2549.5	1985.8	1364.9	861.0	612.2	543.7	531.3	528.8	526.3	527.6
17.5°	2807.0	2530.8	1844.0	1122.3	660.7	535.0	515.1	508.9	507.7	507.7	507.7
20°	2831.9	2509.6	1685.9	905.8	551.2	505.2	492.7	489.0	487.7	487.7	486.5
22.5°	2860.5	2491.0	1525.4	711.7	507.7	484.0	472.8	470.3	469.1	467.8	467.8
25°	2901.6	2467.3	1355.0	582.3	480.3	464.1	452.9	450.4	449.2	444.2	445.4
27.5°	2956.3	2449.9	1179.5	502.7	455.4	439.2	431.8	428.0	425.5	421.8	423.0
30°	3031.0	2435.0	992.9	459.1	426.8	413.1	405.6	403.1	400.6	396.9	396.9
32.5°	3160.4	2441.2	796.3	424.3	400.6	384.5	377.0	374.5	372.0	368.3	368.3
35°	3354.5	2477.3	637.1	394.4	369.5	353.4	345.9	345.9	342.2	337.2	335.9
37.5°	3671.8	2569.4	511.4	365.8	339.7	324.7	316.0	313.5	309.8	302.4	301.1
40°	4046.3	2712.4	430.5	337.2	312.3	297.4	289.9	282.4	272.5	265.0	263.8
42.5°	4516.6	2859.3	373.3	308.6	286.2	272.5	263.8	251.3	236.4	226.5	225.2
45°	5006.8	2993.6	334.7	282.4	261.3	250.1	240.1	220.2	201.6	189.1	187.9
47.5°	5372.6	3018.5	303.6	257.6	240.1	228.9	215.3	190.4	165.5	154.3	150.6
50°	5545.6	2897.8	271.2	232.7	219.0	206.5	189.1	160.5	133.1	119.4	117.0
52.5°	5606.6	2688.8	245.1	210.3	197.8	182.9	161.8	129.4	104.5	90.8	89.6
55°	5581.7	2425.0	221.5	189.1	172.9	155.5	134.4	103.3	77.1	65.9	63.5
57.5°	5451.0	2089.1	197.8	168.0	148.1	130.6	107.0	77.1	52.3	42.3	41.1
60°	5098.9	1631.2	174.2	144.3	125.7	107.0	84.6	54.7	32.4	23.6	23.6
62.5°	4504.2	1210.6	151.8	120.7	105.8	85.9	59.7	34.8	17.4	12.4	11.2
65°	3763.8	893.4	126.9	102.0	88.3	67.2	42.3	21.2	8.7	3.7	2.5
67.5°	2626.6	551.2	105.8	83.4	72.2	48.5	26.1	8.7	3.7	0.0	0.0
70°	1193.2	262.5	80.9	63.5	54.7	34.8	13.7	5.0	2.5	0.0	0.0
72.5°	370.8	138.1	57.2	46.0	37.3	22.4	7.5	3.7	2.5	0.0	0.0
75°	171.7	88.3	36.1	24.9	21.2	11.2	5.0	2.5	1.2	0.0	0.0
77.5°	128.2	68.4	21.2	13.7	11.2	7.5	3.7	2.5	1.2	0.0	0.0
80°	112.0	34.8	12.4	8.7	6.2	5.0	2.5	1.2	0.0	0.0	0.0
82.5°	100.8	17.4	7.5	5.0	3.7	2.5	1.2	1.2	0.0	0.0	0.0
85°	54.7	10.0	5.0	3.7	2.5	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	10.0	5.0	3.7	2.5	2.5	1.2	1.2	1.2	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)