

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: P652020

Luminaire Tested: **GALN-SA7A-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20025.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

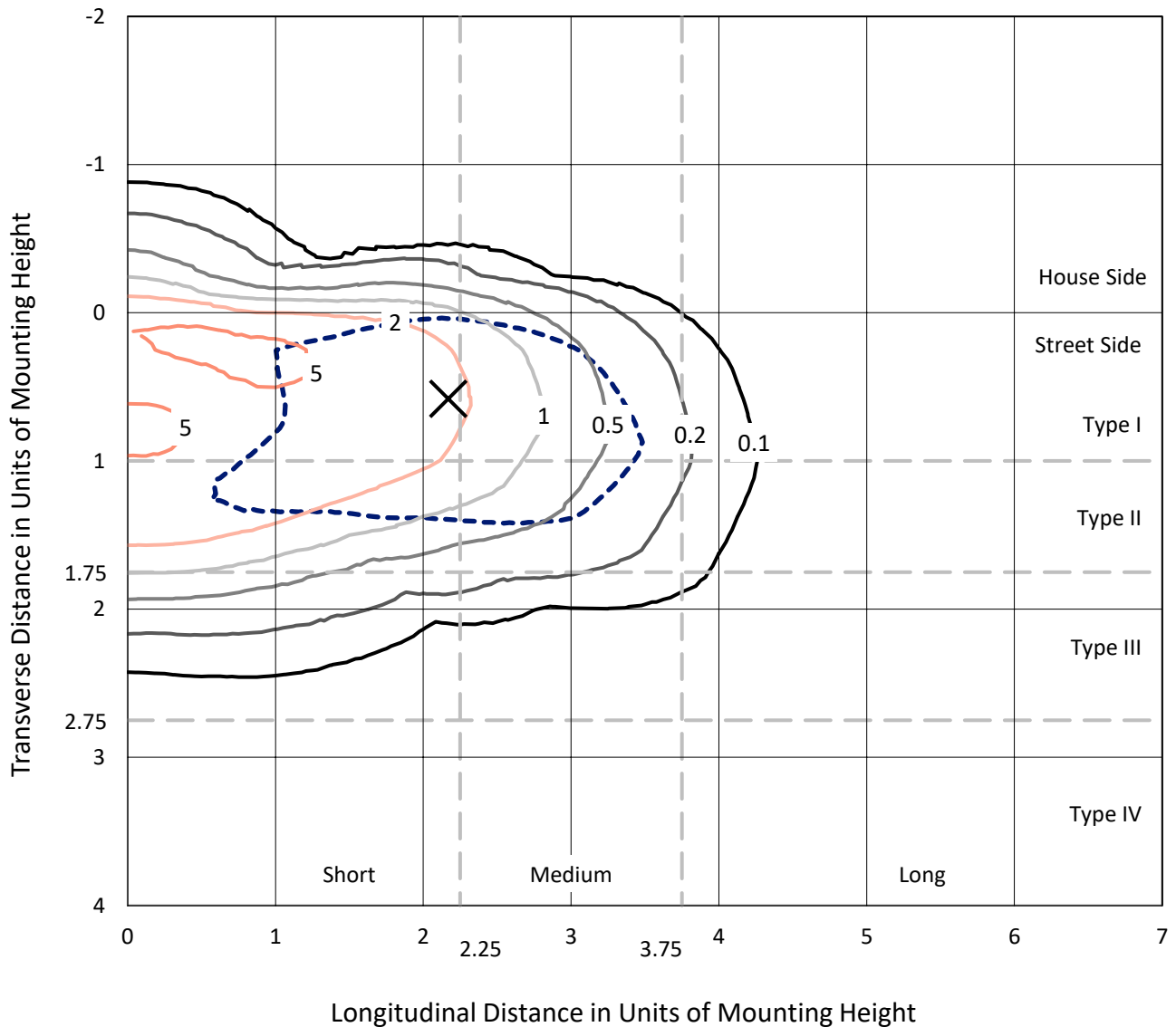
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

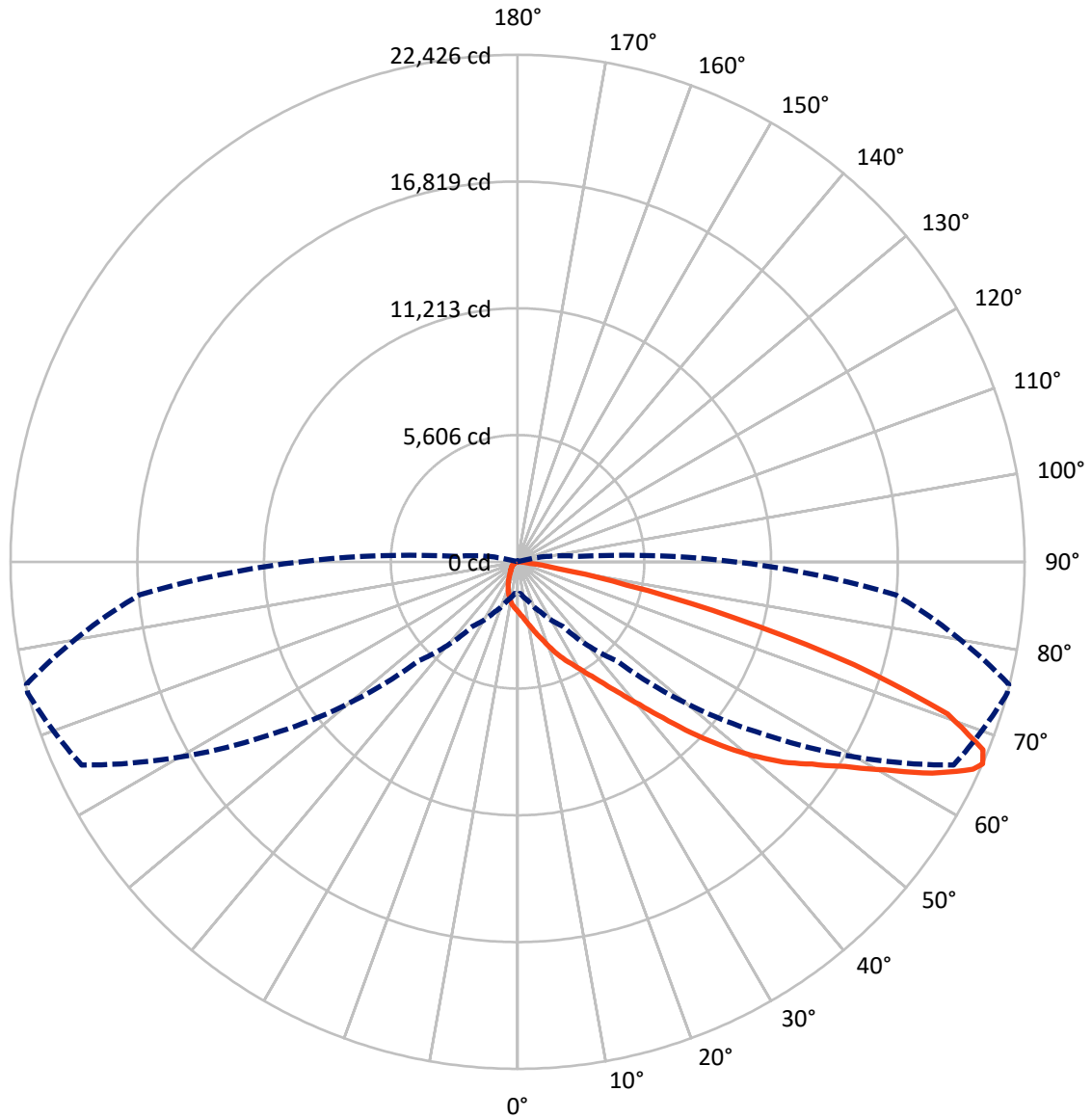
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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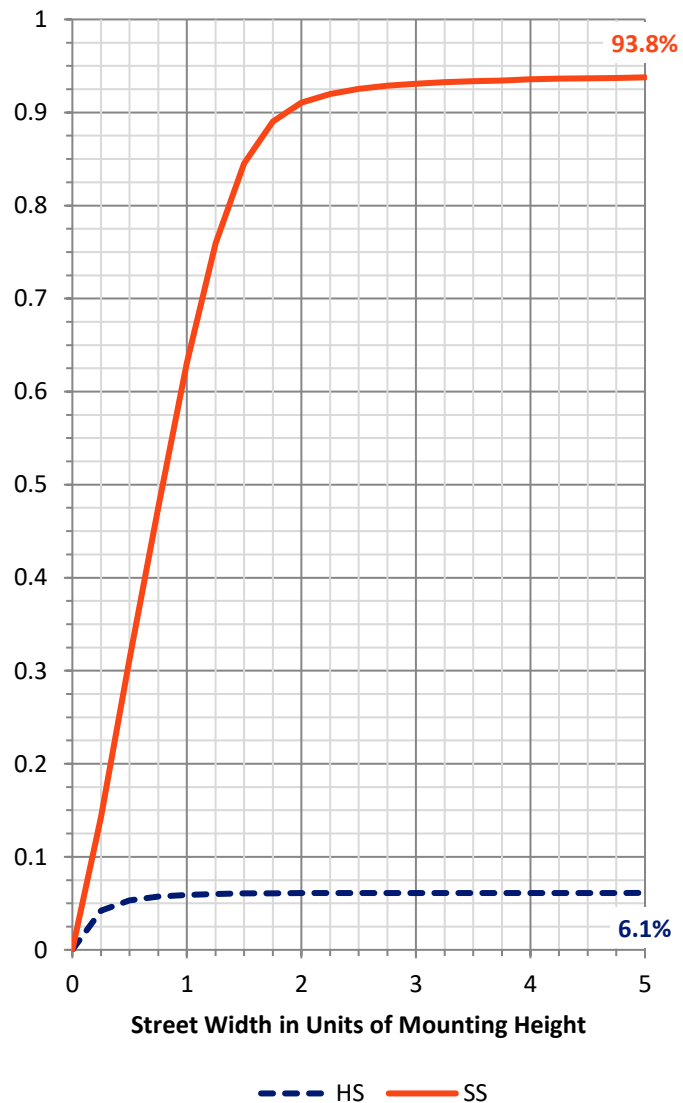
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1236.3	0.0	1236.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18789.6	0.0	18789.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	20025.9	0.0	20025.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	1.1
10°-20°	621.7	3.1
20°-30°	1073.5	5.4
30°-40°	1936.3	9.7
40°-50°	3498.0	17.5
50°-60°	5453.5	27.2
60°-70°	5180.6	25.9
70°-80°	1941.6	9.7
80°-90°	109.5	0.5
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°	20025.9	100.0
0°-180°	20025.9	100.0

Coefficient of Utilization

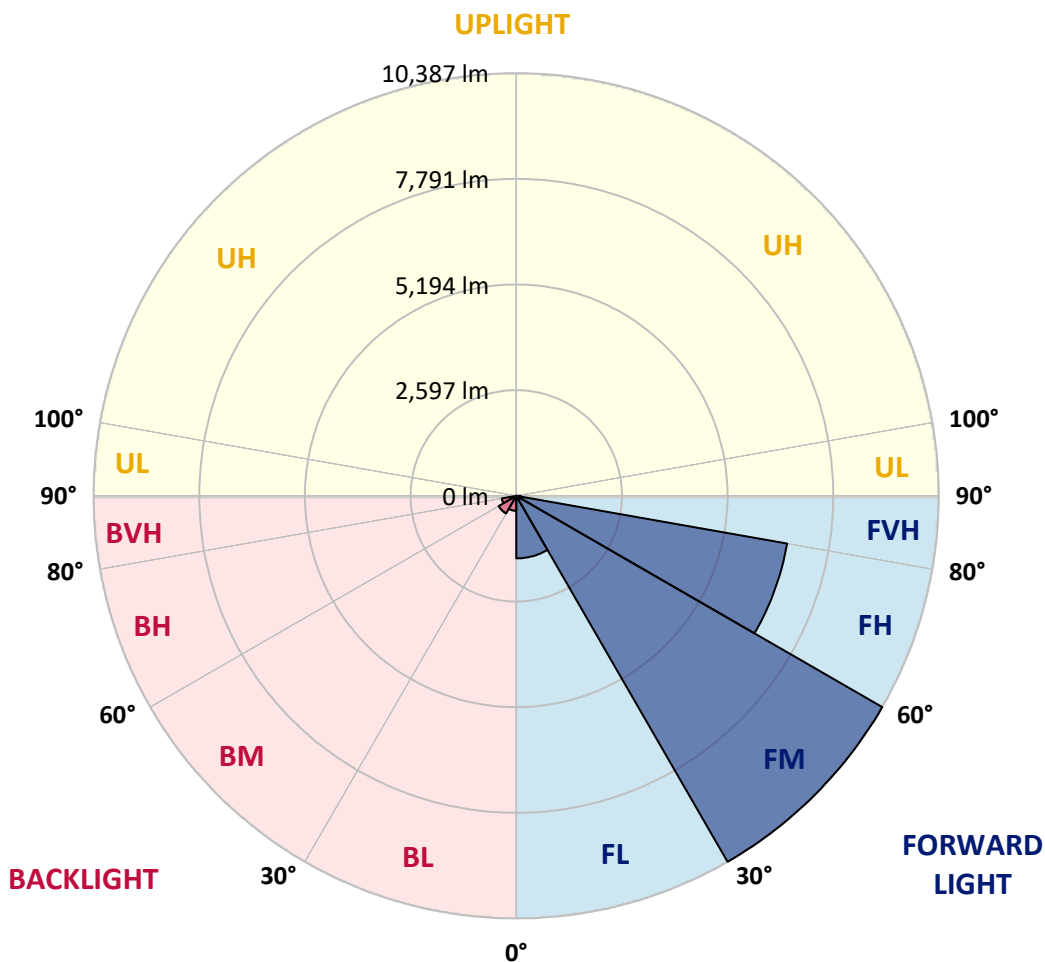


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.2	7.7			
FM (30°-60°)	10387.4	51.9			
FH (60°-80°)	6761.1	33.8			G3/7500
FVH (80°-90°)	103.9	0.5			G2/225
BL (0°-30°)	369.2	1.8	B1/500		
BM (30°-60°)	500.4	2.5	B1/1000		
BH (60°-80°)	361.0	1.8	B1/500		G1/500
BVH (80°-90°)	5.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0
2.5°	2616.5	2583.9	2594.2	2579.4	2545.4	2495.1	2450.7	2387.0	2323.3	2312.9	2241.9
5°	2961.5	2952.6	2940.8	2897.8	2874.1	2797.2	2705.3	2595.7	2464.0	2440.2	2311.5
7.5°	3197.0	3192.5	3198.4	3176.2	3155.5	3085.9	2988.2	2838.6	2634.3	2620.9	2406.2
10°	3273.9	3285.8	3308.0	3343.6	3376.1	3353.9	3279.9	3093.3	2854.9	2816.4	2514.3
12.5°	3229.5	3242.8	3296.1	3390.9	3496.0	3556.8	3527.2	3390.9	3088.8	3057.7	2635.7
15°	3115.5	3131.8	3207.3	3353.9	3542.0	3713.7	3787.8	3690.1	3361.3	3310.9	2782.4
17.5°	2946.7	2970.4	3078.5	3272.5	3530.1	3826.3	4035.0	4002.5	3651.5	3604.1	2942.2
20°	2819.4	2837.1	2929.0	3151.1	3479.7	3888.4	4270.5	4362.3	4009.9	3928.4	3130.3
22.5°	2903.7	2909.7	2940.8	3074.0	3389.4	3904.8	4477.8	4736.9	4390.4	4317.9	3325.7
25°	3316.9	3257.6	3226.6	3197.0	3370.2	3890.0	4665.9	5127.8	4769.5	4692.5	3519.8
27.5°	3968.4	3941.8	3784.8	3574.5	3534.6	3909.2	4790.3	5498.0	5126.3	5043.4	3709.3
30°	4677.7	4631.8	4535.5	4227.5	3918.1	4045.4	4880.6	5857.8	5548.3	5438.8	3882.6
32.5°	5329.2	5358.9	5215.2	4898.3	4540.0	4335.6	4997.6	6250.2	6032.6	5896.3	4083.9
35°	6088.8	6148.0	5927.5	5623.9	5204.9	4859.8	5225.6	6693.0	6647.1	6475.3	4394.9
37.5°	6860.3	6895.9	6761.1	6334.7	5957.1	5526.1	5655.0	7239.4	7403.7	7257.2	4766.5
40°	7508.9	7557.7	7458.6	7079.5	6676.7	6297.7	6278.4	7834.7	8304.0	8153.0	5320.3
42.5°	8005.0	8042.0	8044.9	7776.9	7414.1	7242.4	7073.6	8594.3	9432.4	9257.6	5962.9
45°	8631.3	8684.6	8653.5	8471.4	8200.4	8169.3	8081.9	9512.3	10782.8	10562.2	6796.6
47.5°	9599.7	9635.3	9558.2	9343.5	9068.1	9116.9	9065.1	10541.4	12159.9	11970.4	7659.9
50°	10272.0	10331.2	10440.8	10526.6	10326.7	10146.1	9992.1	11502.4	13467.4	13297.1	8542.5
52.5°	10264.6	10362.3	10708.8	11141.1	11578.0	11523.2	11080.4	12564.2	14715.7	14505.4	9371.7
55°	9573.0	9762.6	10272.0	11039.0	12248.7	12851.4	12650.1	13793.2	15793.6	15651.5	10332.7
57.5°	8145.6	8261.1	8968.9	10041.0	11874.2	13476.3	14468.4	15459.0	17086.3	17019.7	11825.3
60°	5478.8	5530.6	6441.3	7766.6	10109.1	12852.9	15801.0	17474.3	18678.2	18645.6	13568.1
62.5°	3139.2	3161.4	3821.8	4939.8	7193.5	10892.4	15913.7	19960.5	20586.8	20604.7	15584.9
65°	1689.6	1701.3	2234.5	2899.3	4377.1	7763.6	14310.0	21322.8	22129.8	22163.9	16834.6
66°	1458.5	1402.3	1778.4	2471.4	3482.7	6179.2	13295.6	21273.9	22425.9	22388.9	16790.2
67.5°	1109.1	1159.4	1420.0	1899.8	2580.9	4393.4	10976.8	20327.7	22200.9	22085.4	16107.6
70°	793.7	814.4	1011.4	1354.9	1757.7	2410.6	7014.3	16883.5	20178.2	20022.7	14033.1
72.5°	512.3	534.5	716.7	980.3	1270.5	1316.4	3927.0	12198.5	15556.7	15534.5	10568.1
75°	365.8	386.4	473.8	701.9	955.1	814.4	1890.9	8221.1	9889.9	9823.3	6537.5
77.5°	265.1	275.4	316.9	459.0	682.6	583.4	876.6	4390.4	4923.5	5156.0	2888.9
80°	152.6	161.4	220.6	279.9	462.0	398.3	419.1	1762.1	1816.9	1729.5	903.2
82.5°	75.5	85.9	131.8	191.0	288.7	268.0	192.5	530.1	559.7	544.9	228.0
85°	17.7	22.2	74.0	125.9	140.7	119.9	93.3	155.5	192.5	188.0	87.4
87.5°	1.5	2.9	26.7	22.2	23.7	39.9	32.5	39.9	62.1	57.8	31.1
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°	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0
2.5°	2209.3	2181.1	2099.7	2019.7	1953.1	1883.5	1819.8	1782.8	1768.0	1751.7	1759.1
5°	2240.3	2172.2	2007.9	1865.8	1726.6	1608.1	1513.3	1452.6	1423.0	1418.6	1411.1
7.5°	2281.8	2164.8	1910.2	1688.1	1505.9	1374.1	1266.0	1178.7	1152.0	1128.4	1109.1
10°	2332.2	2151.5	1788.7	1501.5	1307.5	1141.7	999.5	895.8	842.5	827.7	838.1
12.5°	2385.5	2126.4	1661.4	1329.7	1106.1	894.4	762.6	710.7	695.9	690.0	691.5
15°	2438.8	2095.3	1528.1	1163.9	881.0	713.8	653.0	639.7	633.8	630.8	627.8
17.5°	2487.7	2044.9	1378.6	1002.5	713.8	610.1	587.9	576.0	564.1	559.7	552.3
20°	2545.4	1987.2	1243.8	821.8	604.2	552.3	525.6	503.4	485.7	473.8	472.4
22.5°	2600.2	1913.1	1103.1	681.1	550.9	496.0	453.1	429.4	408.7	393.8	398.3
25°	2629.8	1822.8	977.3	593.7	502.0	439.8	392.4	362.8	340.6	333.2	331.7
27.5°	2629.8	1711.8	854.4	543.5	457.6	389.5	340.6	312.4	297.6	287.3	288.7
30°	2609.1	1588.8	740.4	504.9	419.1	345.0	299.1	273.9	262.1	254.7	253.2
32.5°	2592.8	1471.8	642.6	467.9	379.0	306.5	266.5	247.3	235.5	228.0	228.0
35°	2617.9	1371.2	567.1	430.9	342.0	276.9	241.4	223.6	211.8	205.8	204.4
37.5°	2684.6	1279.3	509.4	390.9	308.0	251.7	223.6	202.8	191.0	183.6	180.6
40°	2849.0	1227.5	466.4	353.9	275.4	231.0	202.8	183.6	168.8	161.4	160.0
42.5°	3112.5	1229.0	425.0	319.8	250.3	213.2	185.1	162.9	146.6	139.2	137.7
45°	3509.4	1285.3	392.4	287.3	228.0	194.0	165.8	142.1	127.3	119.9	119.9
47.5°	3984.7	1394.9	364.2	259.1	207.3	176.2	146.6	122.9	108.1	102.2	102.2
50°	4500.0	1537.0	336.1	229.5	189.6	156.9	125.9	106.6	94.8	90.3	90.3
52.5°	5025.6	1708.7	308.0	205.8	170.3	136.2	108.1	94.8	84.4	81.4	80.0
55°	5715.7	1927.9	278.4	180.6	149.5	117.0	96.2	82.9	71.1	66.6	65.2
57.5°	6777.4	2258.2	245.8	158.4	122.9	97.7	82.9	69.6	56.3	48.9	47.3
60°	8058.2	2660.9	211.8	139.2	99.2	80.0	66.6	53.3	41.5	32.5	31.1
62.5°	9257.6	2917.1	179.1	117.0	78.5	60.7	47.3	39.9	29.6	20.7	19.3
65°	9787.7	2831.2	148.1	94.8	62.1	43.0	31.1	28.2	17.7	8.9	7.4
66°	9611.5	2703.8	136.2	85.9	56.3	37.0	26.7	23.7	13.3	4.5	4.5
67.5°	9091.8	2403.2	118.5	74.0	48.9	29.6	20.7	17.7	7.4	1.5	0.0
70°	7790.3	1944.2	93.3	54.7	35.6	20.7	11.9	8.9	4.5	0.0	0.0
72.5°	5983.7	1448.2	74.0	41.5	25.1	11.9	5.9	2.9	4.5	0.0	0.0
75°	3666.3	827.7	57.8	31.1	16.3	7.4	4.5	0.0	4.5	1.5	0.0
77.5°	1627.3	371.6	38.5	20.7	11.9	5.9	2.9	0.0	2.9	1.5	0.0
80°	411.7	121.4	22.2	14.8	8.9	4.5	1.5	0.0	2.9	2.9	1.5
82.5°	112.5	44.4	16.3	11.9	7.4	4.5	1.5	0.0	2.9	2.9	2.9
85°	44.4	20.7	14.8	11.9	8.9	4.5	1.5	0.0	2.9	2.9	2.9
87.5°	20.7	14.8	14.8	13.3	10.3	4.5	1.5	0.0	2.9	1.5	2.9
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)