

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: P451411

Luminaire Tested: **GALN-SA2B-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9375 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

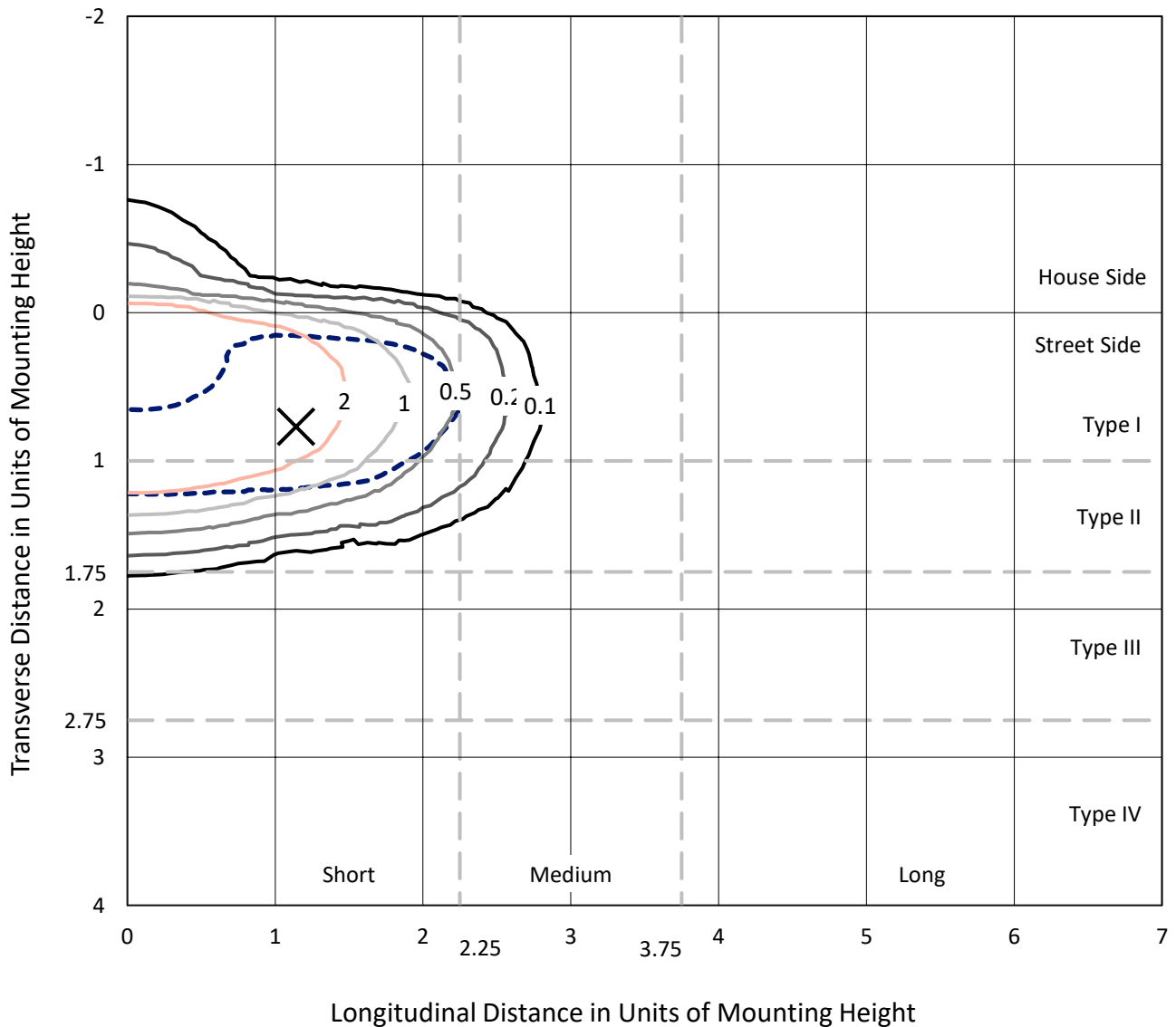
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

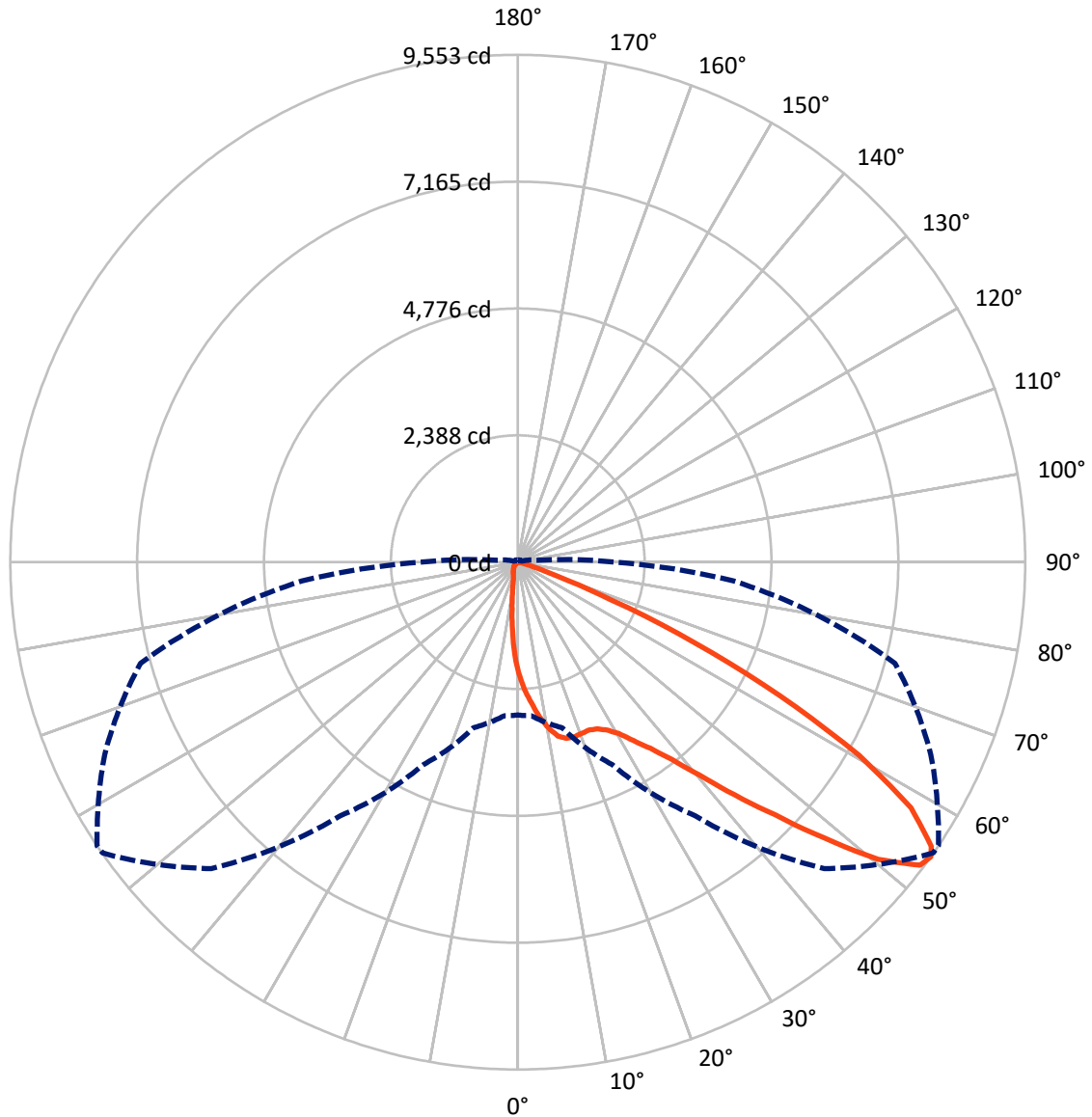
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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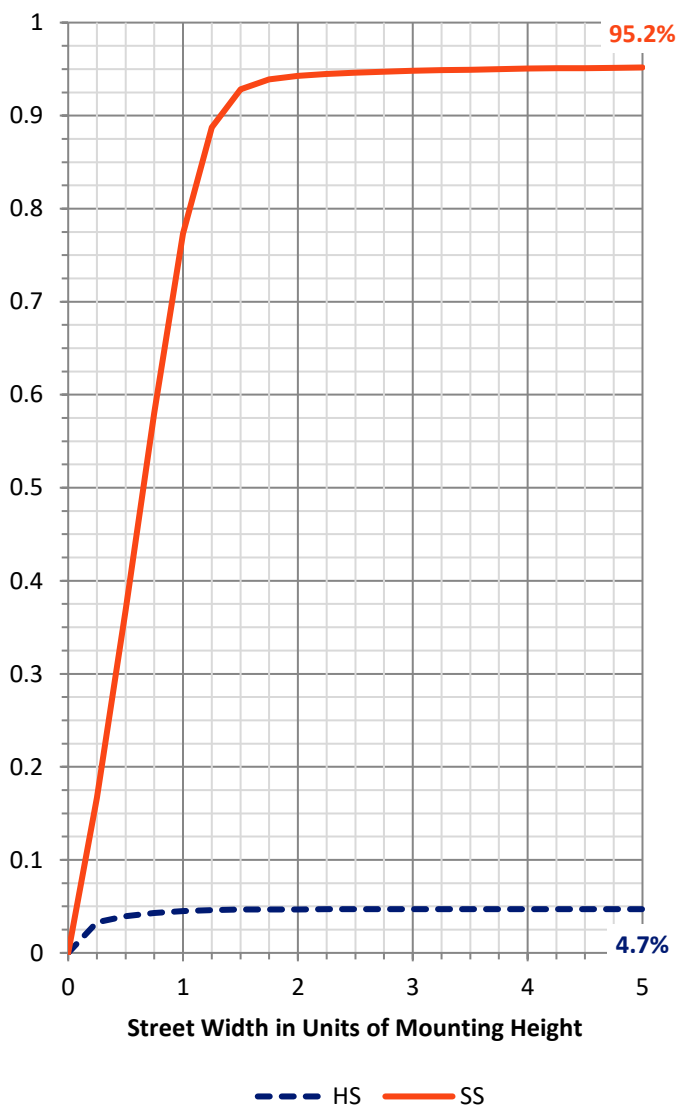
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.3	0.0	443.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8931.7	0.0	8931.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	9375.0	0.0	9375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	2.0
10°-20°	497.6	5.3
20°-30°	861.7	9.2
30°-40°	1487.5	15.9
40°-50°	2531.7	27.0
50°-60°	2505.5	26.7
60°-70°	1143.6	12.2
70°-80°	146.9	1.6
80°-90°	16.6	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°	9375.0	100.0
0°-180°	9375.0	100.0

Coefficient of Utilization



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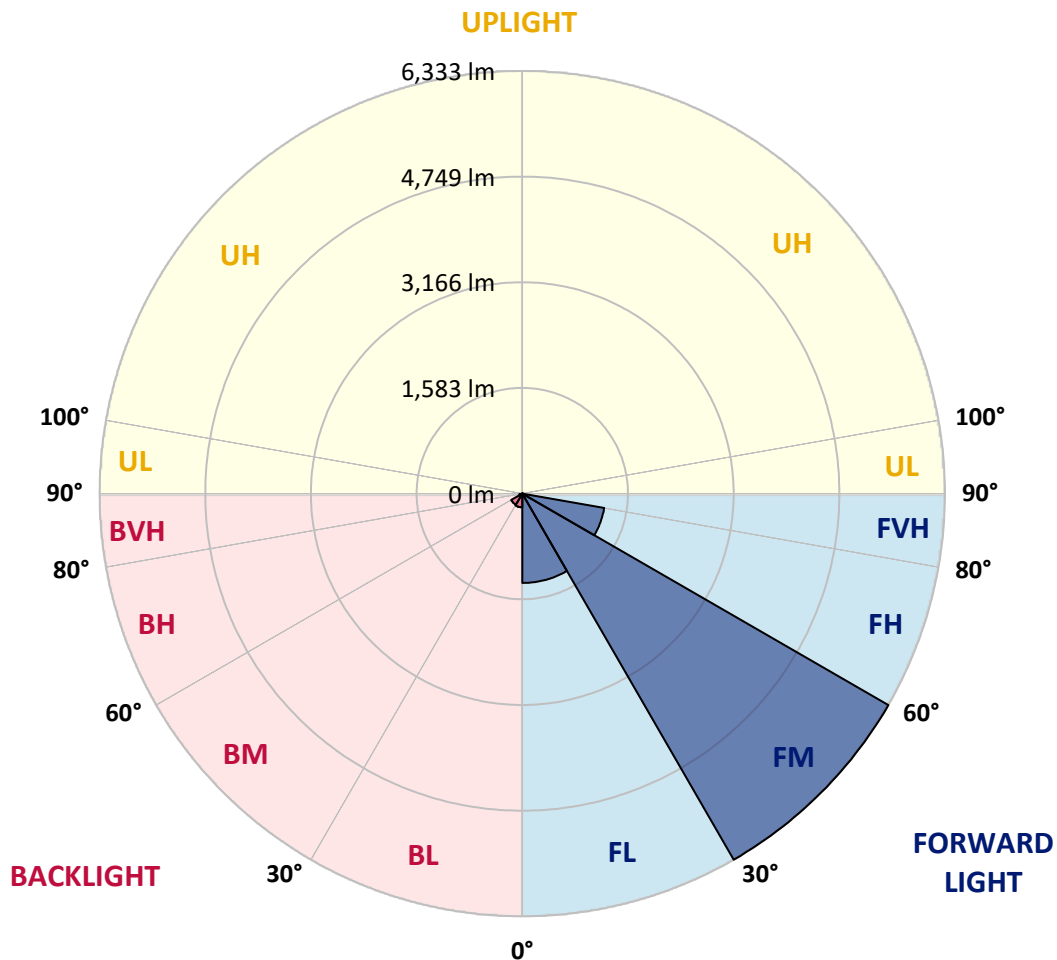
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1338.3	14.3			
FM (30°-60°)	6332.6	67.5			
FH (60°-80°)	1246.0	13.3			G1/1800
FVH (80°-90°)	14.8	0.2			G1/100
BL (0°-30°)	205.0	2.2	B1/500		
BM (30°-60°)	192.1	2.0	B0/220		
BH (60°-80°)	44.4	0.5	B0/110		G0/110
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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9
2.5°	2647.1	2628.7	2603.4	2583.8	2537.6	2471.2	2401.0	2401.0	2333.3	2239.1	2142.9
5°	3053.1	3041.1	3016.4	2965.8	2914.0	2821.0	2679.9	2655.3	2534.5	2363.7	2184.1
7.5°	3218.2	3223.9	3225.2	3211.9	3187.2	3095.5	2955.7	2938.6	2745.7	2516.8	2237.8
10°	3060.1	3087.9	3115.1	3170.1	3247.9	3270.1	3191.0	3173.3	2983.5	2671.7	2296.0
12.5°	2824.8	2840.0	2855.2	2941.8	3098.0	3277.0	3359.9	3359.3	3198.6	2826.1	2370.0
15°	2715.4	2728.6	2729.9	2768.5	2903.9	3164.4	3432.0	3441.5	3408.6	3016.4	2449.7
17.5°	2738.1	2748.9	2740.0	2749.5	2820.4	3040.5	3423.8	3455.4	3578.7	3199.2	2521.8
20°	2886.8	2907.6	2873.5	2846.9	2868.4	3007.6	3395.9	3440.2	3698.9	3377.6	2587.6
22.5°	3153.7	3165.1	3122.1	3049.3	3011.4	3076.5	3388.4	3432.0	3801.4	3523.7	2625.5
25°	3450.3	3446.5	3399.1	3317.5	3237.8	3215.7	3438.3	3477.5	3886.1	3655.3	2636.9
27.5°	3747.0	3758.4	3678.7	3577.5	3482.0	3424.4	3550.3	3579.4	3981.7	3805.2	2650.8
30°	4091.7	4073.4	3994.9	3879.2	3769.8	3689.4	3730.5	3738.8	4113.2	4003.8	2687.5
32.5°	4540.2	4489.6	4401.6	4199.2	4120.8	3984.8	3994.9	4005.1	4273.2	4200.5	2731.8
35°	5148.6	5146.1	4974.1	4701.4	4510.4	4341.5	4297.3	4305.5	4515.5	4492.7	2829.8
37.5°	5881.1	5891.2	5695.1	5420.6	5068.9	4800.8	4709.7	4710.9	4883.6	4896.3	2979.1
40°	6477.5	6504.1	6387.1	6201.8	5854.5	5435.2	5282.1	5268.2	5401.0	5385.2	3192.3
42.5°	6734.3	6759.0	6802.6	6867.2	6676.1	6330.2	5969.0	5988.0	6028.5	5917.8	3431.4
45°	6608.5	6647.7	6819.1	7217.6	7397.2	7280.8	6850.1	6783.7	6612.3	6496.5	3671.7
47.5°	6084.1	6179.6	6466.1	7129.7	7758.4	8151.8	7844.4	7756.5	7196.7	6919.0	3824.8
50°	5222.0	5227.7	5626.8	6475.0	7571.1	8701.4	8859.6	8793.8	7741.3	7156.2	3902.0
52.5°	3785.6	3910.2	4275.8	5258.1	6760.3	8617.9	9506.6	9479.4	8303.0	7277.7	4013.3
54°	2877.9	2902.0	3227.1	4201.8	5828.6	8159.4	9546.5	9552.8	8581.9	7351.0	4079.1
55°	2359.3	2301.7	2643.3	3579.4	5192.9	7753.9	9416.2	9446.5	8707.1	7389.0	4127.8
57.5°	1118.3	1118.9	1380.1	1888.0	3252.4	6020.9	8619.8	8727.4	8721.0	7454.1	4277.7
60°	566.1	569.9	627.4	871.6	1606.6	4002.5	7127.1	7383.3	8050.0	7463.6	4327.0
62.5°	396.0	391.5	382.0	419.4	676.2	2034.2	5306.1	5528.8	6839.3	7102.5	4170.1
65°	339.0	329.5	303.0	297.3	341.6	810.2	3304.9	3667.9	5222.0	6149.9	3723.6
67.5°	289.7	285.9	261.9	247.3	241.6	352.9	1705.2	1896.3	3569.3	4420.6	2820.4
70°	246.0	244.1	229.6	211.3	195.4	211.3	632.5	783.7	1989.2	2380.1	1330.8
72.5°	199.9	201.8	204.3	180.9	164.5	149.9	270.1	314.4	832.4	850.7	465.5
75°	175.2	173.3	173.3	157.5	137.3	111.3	148.6	160.0	254.9	236.6	108.2
77.5°	123.3	118.9	139.2	129.7	114.5	79.1	84.8	89.8	105.6	90.4	50.6
80°	85.4	85.4	89.2	116.4	103.1	57.6	51.9	55.7	62.6	53.8	29.1
82.5°	48.1	49.3	58.2	62.0	60.1	38.6	34.2	34.8	41.7	36.7	18.3
85°	5.7	9.5	33.5	32.9	24.7	17.1	19.0	19.6	25.9	22.8	10.8
87.5°	0.6	1.3	7.0	8.9	6.3	7.0	7.0	7.0	8.9	10.1	7.6
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°	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9	2082.9
2.5°	2091.1	2043.0	1928.5	1795.7	1710.9	1573.1	1456.7	1372.5	1351.7	1311.2	1323.2
5°	2088.5	1988.6	1755.2	1508.5	1245.4	1049.3	903.2	788.1	737.5	704.0	680.6
7.5°	2089.8	1933.6	1559.1	1166.3	852.0	659.7	524.4	454.1	407.3	387.7	390.3
10°	2093.6	1871.6	1331.4	864.0	575.0	426.3	343.5	309.9	294.1	291.6	291.0
12.5°	2102.5	1803.9	1113.9	641.4	402.3	309.9	278.3	266.9	261.9	261.9	260.0
15°	2112.0	1729.3	933.0	476.9	309.9	266.3	251.7	246.0	242.9	242.9	242.3
17.5°	2112.0	1643.3	764.1	370.0	266.9	244.8	233.4	225.8	223.3	223.3	222.6
20°	2098.7	1543.3	614.2	297.9	242.3	224.5	213.2	204.9	201.8	200.5	199.9
22.5°	2052.5	1409.9	488.9	256.2	222.0	206.8	192.3	182.8	180.3	179.0	179.6
25°	1970.3	1259.3	387.1	225.2	203.7	185.3	172.7	165.7	163.2	163.2	163.8
27.5°	1885.5	1101.8	306.8	201.8	181.5	165.1	155.0	150.5	149.9	151.8	152.4
30°	1807.1	943.7	248.6	182.8	161.9	148.0	141.0	139.8	139.8	140.4	141.0
32.5°	1719.8	805.2	208.1	166.4	146.1	134.1	130.3	130.3	131.6	131.6	132.8
35°	1664.8	686.3	182.8	150.5	134.1	124.0	121.4	122.1	124.0	126.5	127.8
37.5°	1635.0	591.4	166.4	137.9	122.7	115.7	113.2	114.5	118.9	123.3	124.0
40°	1637.6	519.9	153.1	127.1	113.9	106.3	104.4	108.2	112.6	117.0	117.6
42.5°	1665.4	466.8	140.4	114.5	106.3	95.5	94.9	98.7	100.6	105.0	105.6
45°	1698.3	428.2	127.1	101.2	92.3	82.9	83.5	86.7	89.2	96.1	97.4
47.5°	1708.4	401.6	112.0	86.0	75.9	72.7	73.4	75.3	80.3	86.7	87.3
50°	1719.8	385.2	97.4	72.7	64.5	63.9	64.5	65.8	68.9	71.5	70.8
52.5°	1768.5	384.6	85.4	63.3	55.0	56.3	56.9	56.3	53.8	50.0	48.7
54°	1814.0	386.5	79.7	58.8	50.6	52.5	51.9	48.7	42.4	38.6	36.7
55°	1850.7	388.4	76.5	55.7	48.1	48.7	49.3	43.0	34.8	31.0	29.7
57.5°	1922.8	383.9	68.9	48.7	42.4	39.8	39.2	28.5	19.0	16.4	15.2
60°	1886.8	346.6	62.6	41.7	36.1	32.3	26.6	15.8	9.5	7.0	7.0
62.5°	1745.1	294.1	55.7	34.2	29.7	24.7	13.9	8.9	4.4	2.5	1.9
65°	1561.0	247.3	50.0	27.2	23.4	15.8	7.6	5.7	1.9	0.0	0.0
67.5°	1160.7	183.4	42.4	21.5	17.7	10.1	5.1	3.2	0.6	0.0	0.0
70°	537.6	112.0	36.1	16.4	12.7	7.6	3.8	1.9	0.0	0.0	0.0
72.5°	154.3	70.2	29.7	12.0	8.9	6.3	3.2	1.3	0.6	0.0	0.0
75°	53.8	56.3	22.1	8.9	7.0	4.4	2.5	1.3	0.6	0.0	0.0
77.5°	32.3	45.5	13.9	7.6	5.7	3.8	2.5	1.3	0.6	0.6	0.0
80°	18.3	30.4	8.9	6.3	5.1	3.2	1.9	1.3	0.6	0.6	0.0
82.5°	10.1	14.5	7.0	5.7	4.4	3.2	1.9	1.3	0.6	0.6	0.6
85°	8.2	7.6	5.7	5.1	3.8	2.5	1.9	0.6	0.0	0.0	0.0
87.5°	6.3	5.1	5.1	5.1	3.8	2.5	1.9	0.6	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)