

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: P452426

Luminaire Tested: **GALN-SA3B-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452426
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-SA3B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 10231 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

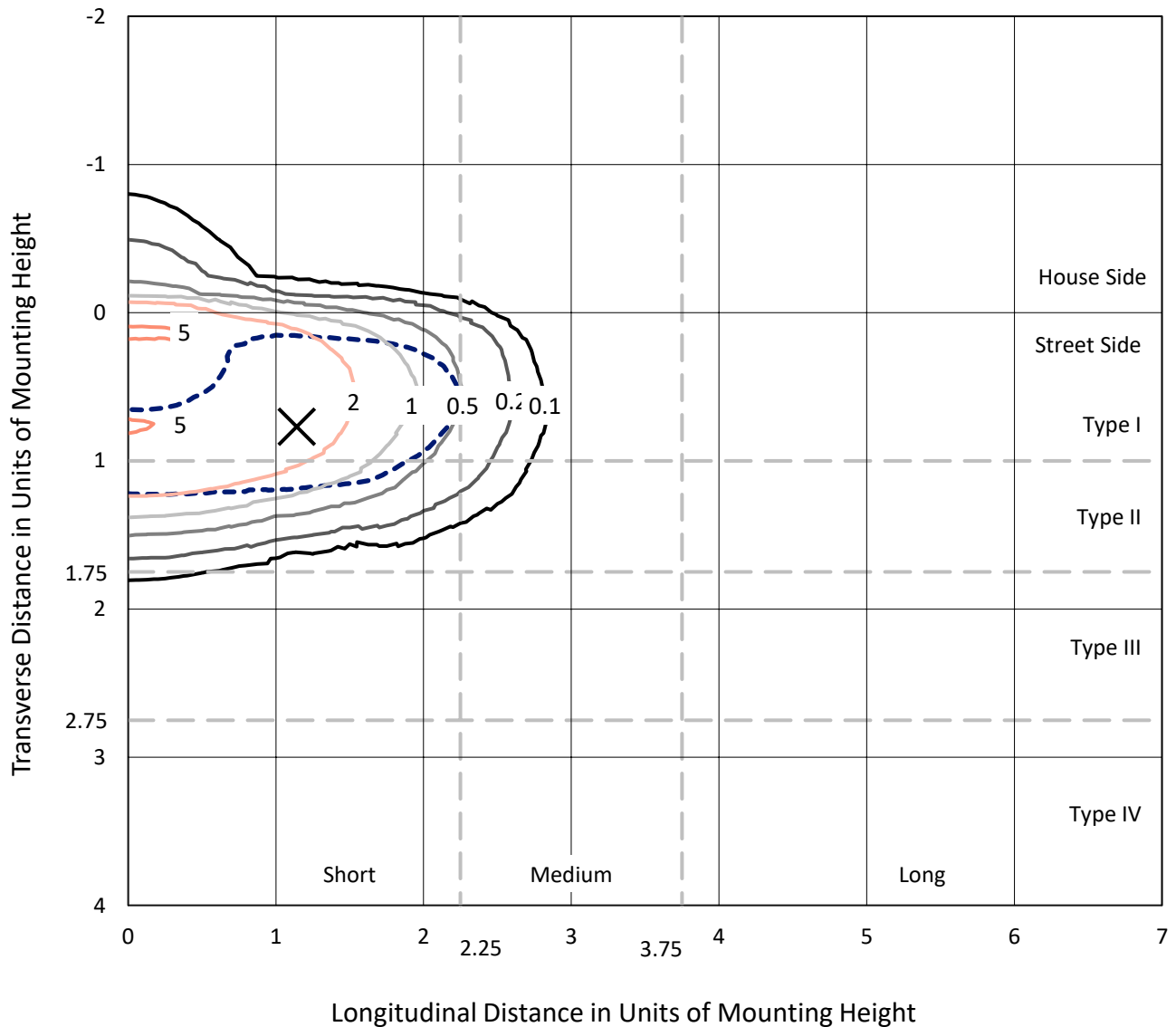
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

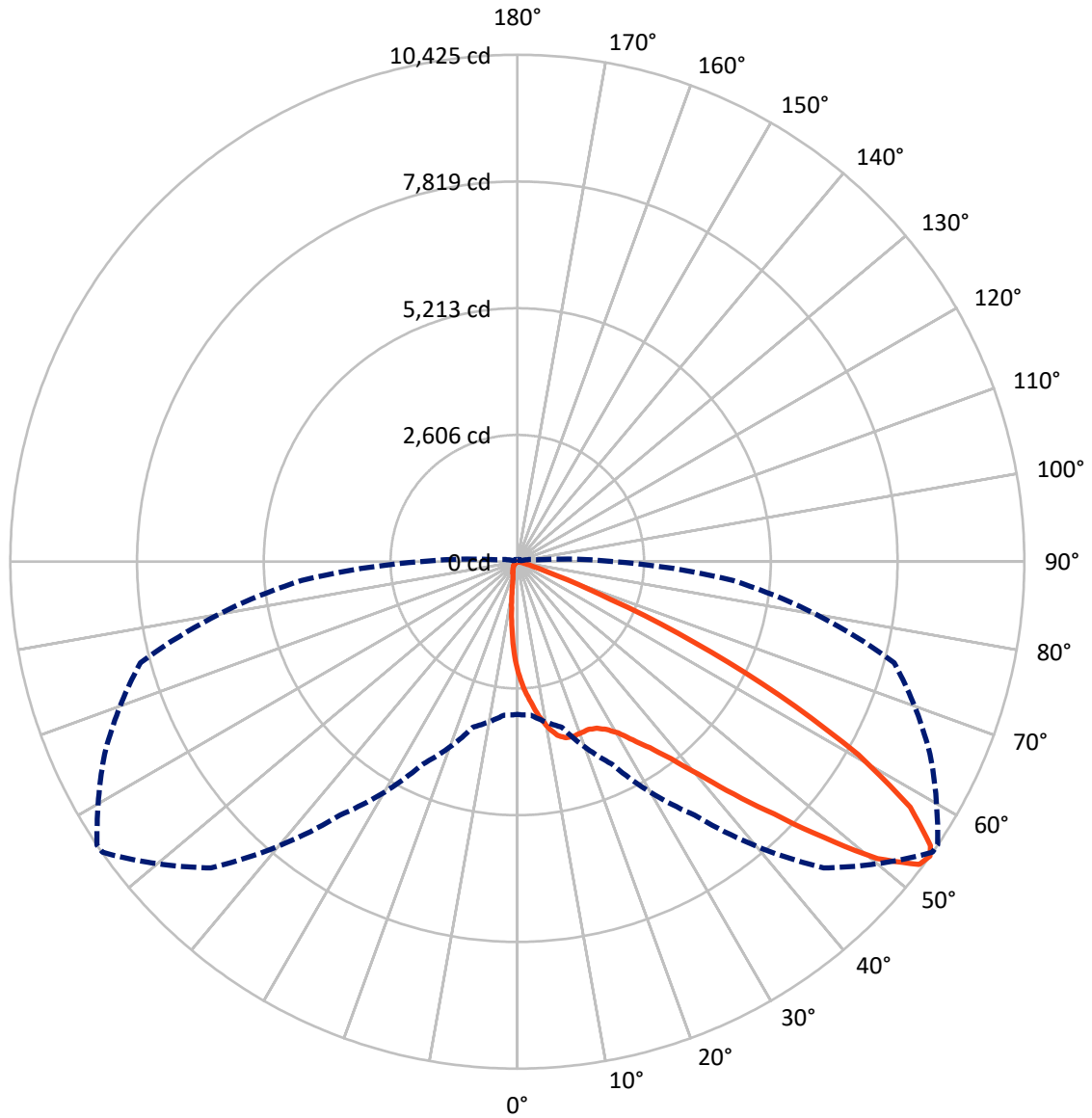
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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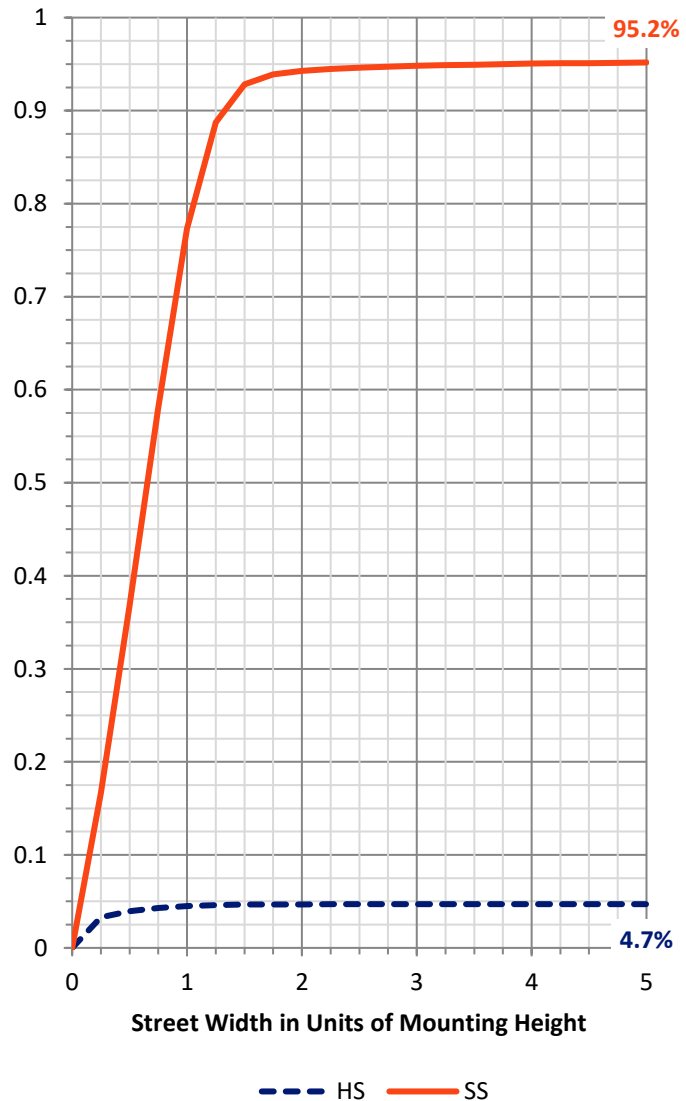
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.8	0.0	483.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	9747.2	0.0	9747.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	10231.0	0.0	10231.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	2.0
10°-20°	543.0	5.3
20°-30°	940.4	9.2
30°-40°	1623.3	15.9
40°-50°	2762.9	27.0
50°-60°	2734.2	26.7
60°-70°	1248.0	12.2
70°-80°	160.3	1.6
80°-90°	18.1	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°	10231.0	100.0
0°-180°	10231.0	100.0



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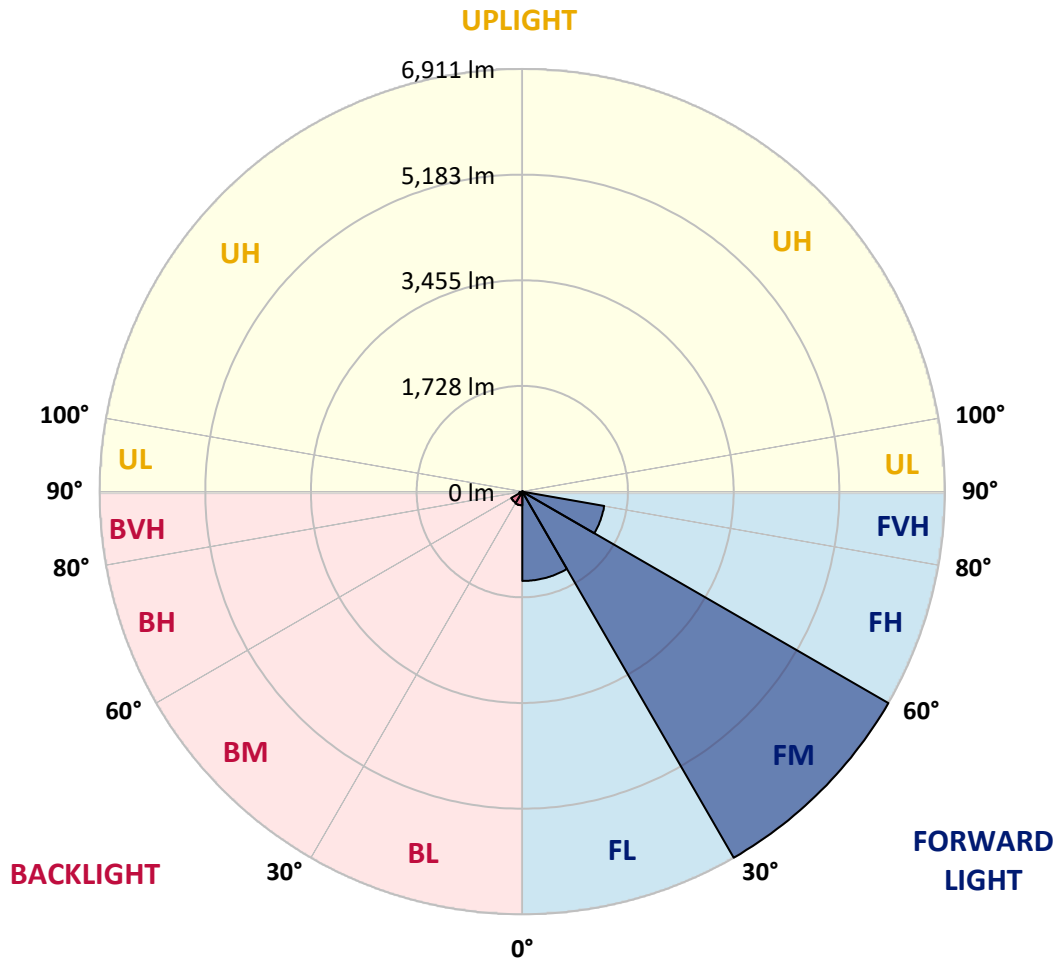
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1460.5	14.3			
FM (30°-60°)	6910.8	67.5			
FH (60°-80°)	1359.8	13.3			G1/1800
FVH (80°-90°)	16.1	0.2			G1/100
BL (0°-30°)	223.7	2.2	B1/500		
BM (30°-60°)	209.7	2.0	B0/220		
BH (60°-80°)	48.4	0.5	B0/110		G0/110
BVH (80°-90°)	1.9	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°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2888.7	2868.7	2841.1	2819.7	2769.3	2696.9	2620.2	2620.2	2546.4	2443.5	2338.6
5°	3331.9	3318.8	3291.9	3236.6	3180.0	3078.6	2924.6	2897.7	2765.9	2579.5	2383.5
7.5°	3512.1	3518.3	3519.6	3505.2	3478.2	3378.1	3225.6	3207.0	2996.4	2746.6	2442.1
10°	3339.5	3369.9	3399.5	3459.6	3544.5	3568.7	3482.4	3463.0	3256.0	2915.7	2505.7
12.5°	3082.7	3099.3	3115.8	3210.4	3380.9	3576.2	3666.7	3666.0	3490.7	3084.1	2586.4
15°	2963.3	2977.8	2979.2	3021.3	3169.0	3453.4	3745.4	3755.7	3719.8	3291.9	2673.4
17.5°	2988.1	2999.9	2990.2	3000.6	3077.9	3318.1	3736.4	3770.9	3905.5	3491.3	2752.1
20°	3150.4	3173.1	3135.9	3106.9	3130.3	3282.2	3706.0	3754.3	4036.7	3686.0	2823.9
22.5°	3441.6	3454.1	3407.1	3327.8	3286.3	3357.4	3697.7	3745.4	4148.5	3845.5	2865.3
25°	3765.4	3761.2	3709.5	3620.4	3533.5	3509.3	3752.3	3795.1	4241.0	3989.0	2877.7
27.5°	4089.1	4101.5	4014.6	3904.1	3799.9	3737.1	3874.4	3906.2	4345.2	4152.6	2892.9
30°	4465.3	4445.3	4359.7	4233.4	4114.0	4026.3	4071.2	4080.1	4488.8	4369.4	2932.9
32.5°	4954.7	4899.5	4803.5	4582.7	4497.1	4348.7	4359.7	4370.7	4663.4	4584.0	2981.2
35°	5618.7	5616.0	5428.2	5130.7	4922.3	4738.0	4689.6	4698.6	4927.8	4902.9	3088.2
37.5°	6418.1	6429.1	6215.1	5915.5	5531.8	5239.1	5139.7	5141.1	5329.5	5343.3	3251.1
40°	7069.0	7098.0	6970.3	6768.0	6389.1	5931.4	5764.4	5749.2	5894.2	5876.9	3483.8
42.5°	7349.2	7376.1	7423.8	7494.2	7285.7	6908.1	6514.0	6534.7	6578.9	6458.1	3744.7
45°	7211.9	7254.7	7441.7	7876.6	8072.6	7945.6	7475.5	7403.1	7216.0	7089.7	4007.0
47.5°	6639.6	6743.9	7056.6	7780.6	8466.8	8896.1	8560.6	8464.7	7853.8	7550.8	4174.0
50°	5698.8	5705.0	6140.6	7066.2	8262.4	9495.9	9668.5	9596.7	8448.1	7809.6	4258.2
52.5°	4131.2	4267.2	4666.2	5738.2	7377.5	9404.8	10374.6	10345.0	9061.1	7942.2	4379.7
54°	3140.7	3166.9	3521.7	4585.4	6360.8	8904.4	10418.1	10425.0	9365.5	8022.2	4451.5
55°	2574.7	2511.9	2884.6	3906.2	5667.1	8461.9	10275.9	10309.1	9502.2	8063.6	4504.7
57.5°	1220.4	1221.1	1506.2	2060.4	3549.3	6570.6	9406.9	9524.2	9517.3	8134.7	4668.2
60°	617.8	621.9	684.7	951.2	1753.3	4368.0	7777.9	8057.4	8785.0	8145.1	4722.1
62.5°	432.1	427.3	416.9	457.6	737.9	2219.9	5790.6	6033.6	7463.8	7751.0	4550.9
65°	370.0	359.6	330.6	324.4	372.7	884.2	3606.6	4002.8	5698.8	6711.4	4063.6
67.5°	316.1	312.0	285.8	269.9	263.7	385.2	1860.9	2069.4	3895.2	4824.2	3077.9
70°	268.5	266.4	250.6	230.5	213.3	230.5	690.3	855.2	2170.9	2597.5	1452.3
72.5°	218.1	220.2	223.0	197.4	179.5	163.6	294.7	343.1	908.4	928.4	508.0
75°	191.2	189.1	189.1	171.9	149.8	121.5	162.2	174.6	278.2	258.2	118.0
77.5°	134.6	129.8	151.9	141.5	124.9	86.3	92.5	98.0	115.3	98.7	55.2
80°	93.2	93.2	97.3	127.0	112.5	62.8	56.6	60.7	68.3	58.7	31.8
82.5°	52.5	53.8	63.5	67.6	65.6	42.1	37.3	38.0	45.6	40.0	20.0
85°	6.2	10.4	36.6	35.9	26.9	18.6	20.7	21.4	28.3	24.8	11.7
87.5°	0.7	1.4	7.6	9.7	6.9	7.6	7.6	7.6	9.7	11.0	8.3
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°	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0	2273.0
2.5°	2282.0	2229.5	2104.6	1959.7	1867.2	1716.7	1589.7	1497.9	1475.1	1430.9	1444.0
5°	2279.2	2170.2	1915.5	1646.3	1359.1	1145.1	985.7	860.1	804.8	768.3	742.7
7.5°	2280.6	2110.1	1701.5	1272.8	929.8	719.9	572.2	495.6	444.5	423.1	425.9
10°	2284.8	2042.5	1453.0	942.9	627.4	465.2	374.8	338.2	321.0	318.2	317.5
12.5°	2294.4	1968.6	1215.6	699.9	439.0	338.2	303.7	291.3	285.8	285.8	283.7
15°	2304.8	1887.2	1018.1	520.5	338.2	290.6	274.7	268.5	265.1	265.1	264.4
17.5°	2304.8	1793.3	833.8	403.8	291.3	267.1	254.7	246.4	243.7	243.7	243.0
20°	2290.3	1684.2	670.2	325.1	264.4	245.0	232.6	223.6	220.2	218.8	218.1
22.5°	2239.9	1538.6	533.6	279.6	242.3	225.7	209.8	199.5	196.7	195.3	196.0
25°	2150.2	1374.3	422.4	245.7	222.3	202.2	188.4	180.8	178.1	178.1	178.8
27.5°	2057.7	1202.4	334.8	220.2	198.1	180.2	169.1	164.3	163.6	165.7	166.4
30°	1972.1	1029.9	271.3	199.5	176.7	161.5	153.9	152.5	152.5	153.2	153.9
32.5°	1876.8	878.7	227.1	181.5	159.5	146.3	142.2	142.2	143.6	143.6	145.0
35°	1816.8	748.9	199.5	164.3	146.3	135.3	132.5	133.2	135.3	138.1	139.4
37.5°	1784.3	645.4	181.5	150.5	133.9	126.3	123.6	124.9	129.8	134.6	135.3
40°	1787.1	567.4	167.0	138.7	124.2	116.0	113.9	118.0	122.9	127.7	128.4
42.5°	1817.5	509.4	153.2	124.9	116.0	104.2	103.5	107.7	109.8	114.6	115.3
45°	1853.4	467.3	138.7	110.4	100.8	90.4	91.1	94.6	97.3	104.9	106.3
47.5°	1864.4	438.3	122.2	93.9	82.8	79.4	80.1	82.1	87.7	94.6	95.3
50°	1876.8	420.4	106.3	79.4	70.4	69.7	70.4	71.8	75.2	78.0	77.3
52.5°	1930.0	419.7	93.2	69.0	60.1	61.4	62.1	61.4	58.7	54.5	53.2
54°	1979.7	421.8	87.0	64.2	55.2	57.3	56.6	53.2	46.2	42.1	40.0
55°	2019.7	423.8	83.5	60.7	52.5	53.2	53.8	46.9	38.0	33.8	32.4
57.5°	2098.4	419.0	75.2	53.2	46.2	43.5	42.8	31.1	20.7	17.9	16.6
60°	2059.1	378.3	68.3	45.6	39.3	35.2	29.0	17.3	10.4	7.6	7.6
62.5°	1904.4	321.0	60.7	37.3	32.4	26.9	15.2	9.7	4.8	2.8	2.1
65°	1703.6	269.9	54.5	29.7	25.5	17.3	8.3	6.2	2.1	0.0	0.0
67.5°	1266.6	200.2	46.2	23.5	19.3	11.0	5.5	3.5	0.7	0.0	0.0
70°	586.7	122.2	39.3	17.9	13.8	8.3	4.1	2.1	0.0	0.0	0.0
72.5°	168.4	76.6	32.4	13.1	9.7	6.9	3.5	1.4	0.7	0.0	0.0
75°	58.7	61.4	24.2	9.7	7.6	4.8	2.8	1.4	0.7	0.0	0.0
77.5°	35.2	49.7	15.2	8.3	6.2	4.1	2.8	1.4	0.7	0.7	0.0
80°	20.0	33.1	9.7	6.9	5.5	3.5	2.1	1.4	0.7	0.7	0.0
82.5°	11.0	15.9	7.6	6.2	4.8	3.5	2.1	1.4	0.7	0.7	0.7
85°	9.0	8.3	6.2	5.5	4.1	2.8	2.1	0.7	0.0	0.0	0.0
87.5°	6.9	5.5	5.5	5.5	4.1	2.8	2.1	0.7	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)