

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: P300990

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL4-7027-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19294.8 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

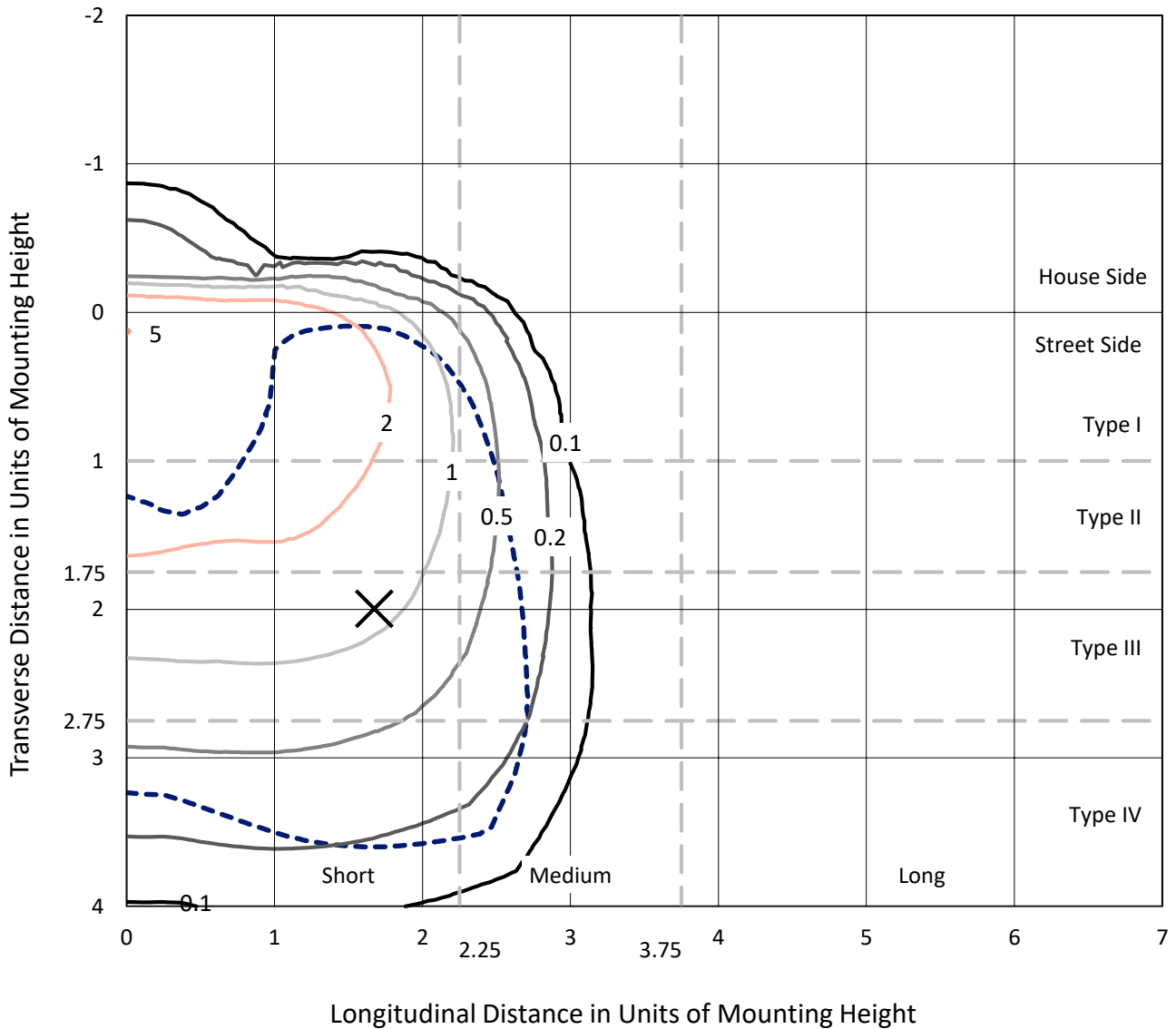
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

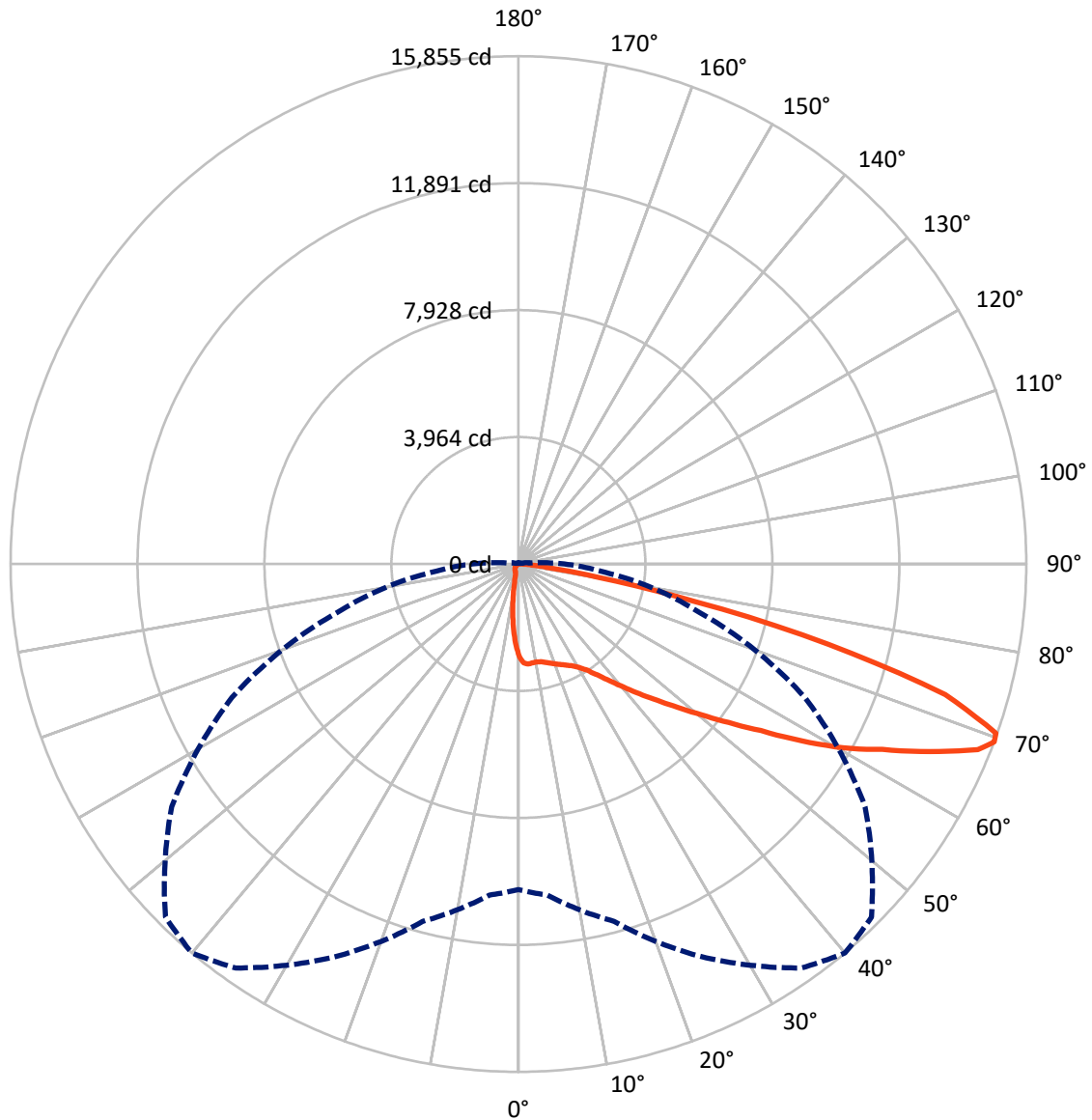
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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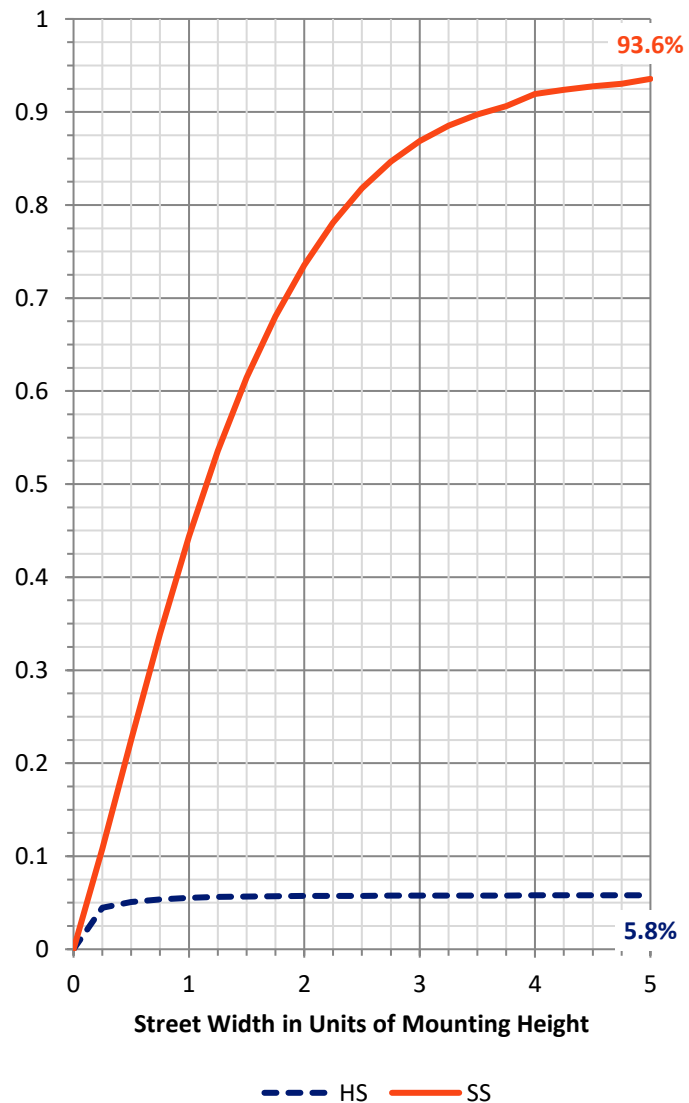
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.9	0.0	1128.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	18165.9	0.0	18165.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	19294.8	0.0	19294.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.2
10°-20°	574.8	3.0
20°-30°	968.2	5.0
30°-40°	1584.9	8.2
40°-50°	2744.2	14.2
50°-60°	4322.4	22.4
60°-70°	5644.8	29.3
70°-80°	2907.3	15.1
80°-90°	314.5	1.6
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°	19294.8	100.0
0°-180°	19294.8	100.0

Coefficient of Utilization



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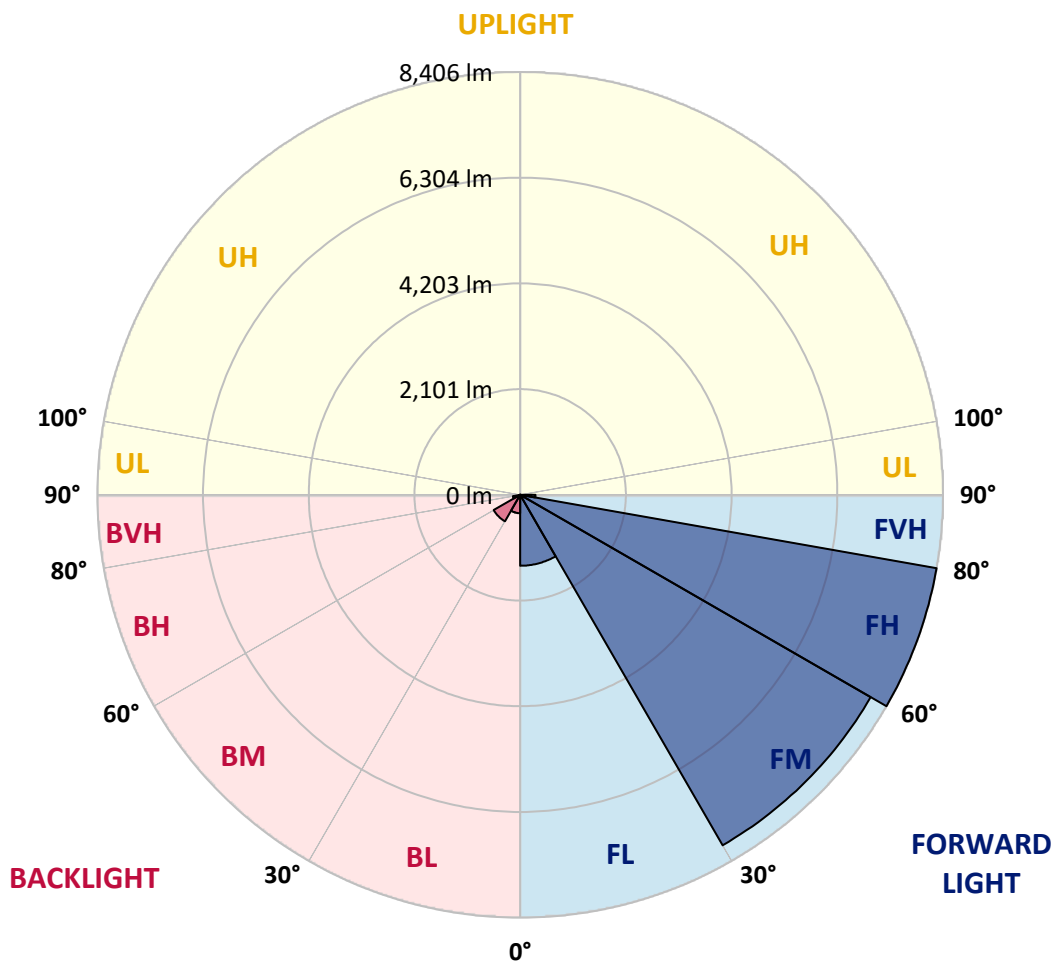
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1411.0	7.3			
FM	(30°-60°)	8044.7	41.7			
FH	(60°-80°)	8405.6	43.6			G4/12000
FVH	(80°-90°)	304.6	1.6			G3/500
BL	(0°-30°)	365.7	1.9	B1/500		
BM	(30°-60°)	606.7	3.1	B1/1000		
BH	(60°-80°)	146.6	0.8	B1/500		G1/500
BVH	(80°-90°)	9.9	0.1			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°	40°	45°	55°	65°	75°	85°
0°	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7
2.5°	3165.3	3148.0	3137.7	3123.9	3106.7	3091.8	3086.0	3043.5	3003.3	2948.2	2885.0
5°	3223.8	3218.1	3199.7	3181.4	3160.7	3137.7	3125.1	3074.5	3017.1	2936.7	2826.5
7.5°	3229.6	3222.7	3199.7	3174.5	3145.7	3118.2	3096.4	3045.8	2993.0	2911.5	2777.1
10°	3220.4	3212.4	3195.1	3167.6	3132.0	3105.5	3083.7	3035.5	2990.7	2917.2	2767.9
12.5°	3210.1	3202.0	3194.0	3180.2	3149.2	3130.8	3112.4	3066.5	3026.3	2964.3	2801.2
15°	3220.4	3215.8	3225.0	3219.3	3202.0	3185.9	3167.6	3126.2	3089.5	3037.8	2862.1
17.5°	3264.0	3264.0	3292.8	3296.2	3280.1	3257.2	3230.7	3189.4	3158.4	3114.7	2934.4
20°	3366.3	3362.8	3399.6	3406.5	3367.4	3331.8	3292.8	3242.2	3218.1	3190.5	3005.6
22.5°	3542.0	3525.9	3547.7	3540.8	3463.9	3408.8	3360.5	3298.5	3285.9	3273.2	3084.9
25°	3770.5	3761.3	3776.3	3708.5	3573.0	3498.3	3440.9	3370.9	3370.9	3383.5	3174.5
27.5°	4102.4	4068.0	4017.5	3898.0	3694.7	3599.4	3537.4	3462.7	3482.3	3529.3	3292.8
30°	4442.4	4404.5	4288.5	4104.7	3842.9	3743.0	3670.6	3592.5	3638.5	3724.6	3451.2
32.5°	4777.8	4735.3	4571.0	4339.0	4055.4	3955.4	3885.4	3799.2	3876.2	4020.9	3683.2
35°	5102.8	5064.9	4875.4	4602.0	4337.9	4255.2	4190.9	4116.2	4215.0	4417.1	4010.6
37.5°	5468.0	5426.7	5195.8	4899.5	4681.3	4621.6	4574.5	4499.8	4672.1	4968.4	4466.5
40°	5917.1	5847.0	5535.8	5240.6	5078.7	5050.0	5017.8	5007.5	5275.1	5685.1	5074.1
42.5°	6431.6	6316.8	5891.8	5600.1	5515.1	5535.8	5527.7	5573.7	6029.6	6576.3	5813.7
45°	6946.1	6798.0	6288.0	5983.7	5995.2	6067.5	6112.3	6296.1	6974.9	7598.5	6609.6
47.5°	7382.6	7236.7	6668.2	6398.3	6536.1	6678.5	6800.3	7148.3	7946.5	8604.6	7228.7
50°	7755.8	7618.0	7071.3	6854.3	7164.4	7394.1	7591.6	8107.3	8991.6	9370.6	7662.8
52.5°	8061.3	7969.5	7489.4	7376.8	7882.2	8218.7	8508.1	9126.0	9917.3	9993.1	8000.5
55°	8358.8	8293.3	7938.4	7998.2	8725.2	9183.4	9549.8	10206.7	10714.4	10512.2	8324.3
57.5°	8701.1	8641.3	8450.7	8786.0	9833.5	10410.0	10809.7	11164.6	11416.1	11042.8	8629.8
60°	9050.2	9015.7	9020.3	9661.2	11106.0	11659.6	11880.1	11972.0	12105.2	11542.4	8647.1
62.5°	9383.3	9448.7	9671.5	10635.1	12324.6	12749.5	12860.9	12951.7	12795.5	11621.7	7989.0
65°	9947.2	10054.0	10585.7	11938.7	13664.9	14119.7	14234.5	13923.3	12904.6	10597.2	6498.2
67.5°	10222.8	10418.1	11366.7	13153.8	14965.0	15470.3	15427.8	13986.5	11580.3	8080.9	4170.2
69°	10165.4	10373.3	11547.0	13525.9	15396.8	15855.1	15585.2	13213.5	9865.6	5853.9	2560.0
70°	9938.0	10148.2	11454.0	13512.1	15451.9	15814.9	15293.5	12259.1	8341.6	4280.5	1601.0
72.5°	8299.1	8480.5	10168.8	12213.2	14234.5	13939.4	12794.3	8493.2	4064.5	1165.7	360.6
75°	5108.5	5209.6	7296.4	9200.6	10751.1	9993.1	8524.2	4225.3	1211.7	329.6	199.8
77.5°	2699.0	2744.9	3994.5	5423.2	6815.2	5639.1	4368.9	1648.1	558.2	206.7	144.7
80°	1595.3	1629.7	2151.1	2479.6	2949.4	2463.5	1746.9	1011.8	399.7	129.8	128.6
82.5°	913.1	934.9	1559.7	1378.2	1162.3	992.3	869.4	959.0	240.0	87.3	133.2
85°	335.4	340.0	877.5	1048.6	691.4	411.2	431.8	794.8	64.3	55.1	104.5
87.5°	156.2	152.8	451.4	642.0	404.3	260.7	336.5	174.6	25.3	35.6	28.7
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°	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7
2.5°	2848.3	2805.8	2728.8	2649.6	2569.2	2507.2	2446.3	2398.1	2382.0	2352.1	2354.4
5°	2761.0	2682.9	2522.1	2359.0	2189.0	2048.9	1916.8	1810.0	1758.4	1705.5	1705.5
7.5°	2685.2	2571.5	2320.0	2054.7	1780.2	1549.3	1341.5	1185.3	1099.1	1030.2	1029.1
10°	2656.5	2502.6	2151.1	1771.0	1388.5	1073.8	826.9	668.4	586.9	534.1	531.8
12.5°	2669.1	2478.5	2021.4	1509.1	1029.1	690.2	478.9	376.7	342.3	326.2	326.2
15°	2705.9	2471.6	1891.6	1253.0	727.0	431.8	318.1	290.6	288.3	288.3	288.3
17.5°	2750.7	2473.9	1758.4	1003.8	495.0	308.9	274.5	271.0	273.3	273.3	273.3
20°	2796.6	2475.0	1614.8	772.9	349.1	268.7	258.4	257.3	259.6	259.6	260.7
22.5°	2852.9	2480.8	1471.2	577.7	288.3	253.8	245.8	245.8	246.9	246.9	245.8
25°	2917.2	2492.2	1321.9	428.4	263.0	243.5	236.6	235.4	236.6	235.4	234.3
27.5°	2997.6	2508.3	1155.4	335.4	251.5	233.1	227.4	227.4	226.3	225.1	224.0
30°	3098.7	2526.7	968.2	284.8	240.0	224.0	218.2	217.1	215.9	213.6	213.6
32.5°	3252.6	2566.9	783.3	258.4	227.4	211.3	206.7	206.7	204.4	202.1	201.0
35°	3489.1	2646.1	617.9	242.3	213.6	197.5	191.8	191.8	189.5	188.4	187.2
37.5°	3816.5	2766.7	480.1	227.4	199.8	182.6	176.9	175.7	173.4	171.1	170.0
40°	4251.8	2916.0	377.9	213.6	186.1	167.7	163.1	160.8	156.2	152.8	152.8
42.5°	4798.4	3086.0	306.7	198.7	170.0	153.9	150.5	147.0	139.0	135.5	134.4
45°	5370.4	3238.8	259.6	181.5	153.9	140.1	137.8	132.1	121.7	118.3	118.3
47.5°	5782.7	3274.4	228.6	165.4	139.0	125.2	124.0	113.7	104.5	102.2	101.1
50°	6040.0	3204.3	203.3	149.3	125.2	111.4	108.0	95.3	89.6	87.3	86.1
52.5°	6213.4	3079.1	182.6	135.5	112.6	98.8	90.7	81.5	76.9	74.7	74.7
55°	6352.4	2902.3	161.9	122.9	102.2	88.4	76.9	70.1	65.5	63.2	63.2
57.5°	6391.4	2662.2	141.3	112.6	91.9	78.1	65.5	60.9	55.1	54.0	54.0
60°	6107.7	2229.2	125.2	99.9	82.7	67.8	57.4	51.7	45.9	44.8	43.6
62.5°	5360.1	1725.0	110.3	88.4	72.4	58.6	49.4	42.5	37.9	37.9	37.9
65°	4088.7	1156.5	96.5	76.9	63.2	49.4	42.5	34.5	32.2	32.2	33.3
67.5°	2447.5	629.4	82.7	65.5	54.0	41.3	35.6	29.9	28.7	29.9	29.9
69°	1434.5	369.8	74.7	58.6	47.1	36.8	31.0	26.4	28.7	29.9	29.9
70°	885.5	249.2	68.9	52.8	42.5	33.3	28.7	25.3	27.6	28.7	28.7
72.5°	246.9	128.6	55.1	41.3	34.5	27.6	23.0	23.0	26.4	27.6	27.6
75°	160.8	95.3	42.5	31.0	26.4	21.8	19.5	21.8	25.3	26.4	26.4
77.5°	133.2	78.1	34.5	25.3	21.8	20.7	18.4	19.5	23.0	24.1	24.1
80°	121.7	55.1	27.6	23.0	19.5	18.4	17.2	16.1	20.7	21.8	21.8
82.5°	116.0	43.6	24.1	20.7	18.4	16.1	14.9	16.1	18.4	19.5	20.7
85°	72.4	28.7	21.8	19.5	16.1	14.9	14.9	14.9	17.2	18.4	18.4
87.5°	26.4	23.0	19.5	16.1	13.8	13.8	13.8	13.8	14.9	17.2	17.2
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)