

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: P529969

Luminaire Tested: **GALN-SA5A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13576 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

Input Watts (W): 154
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

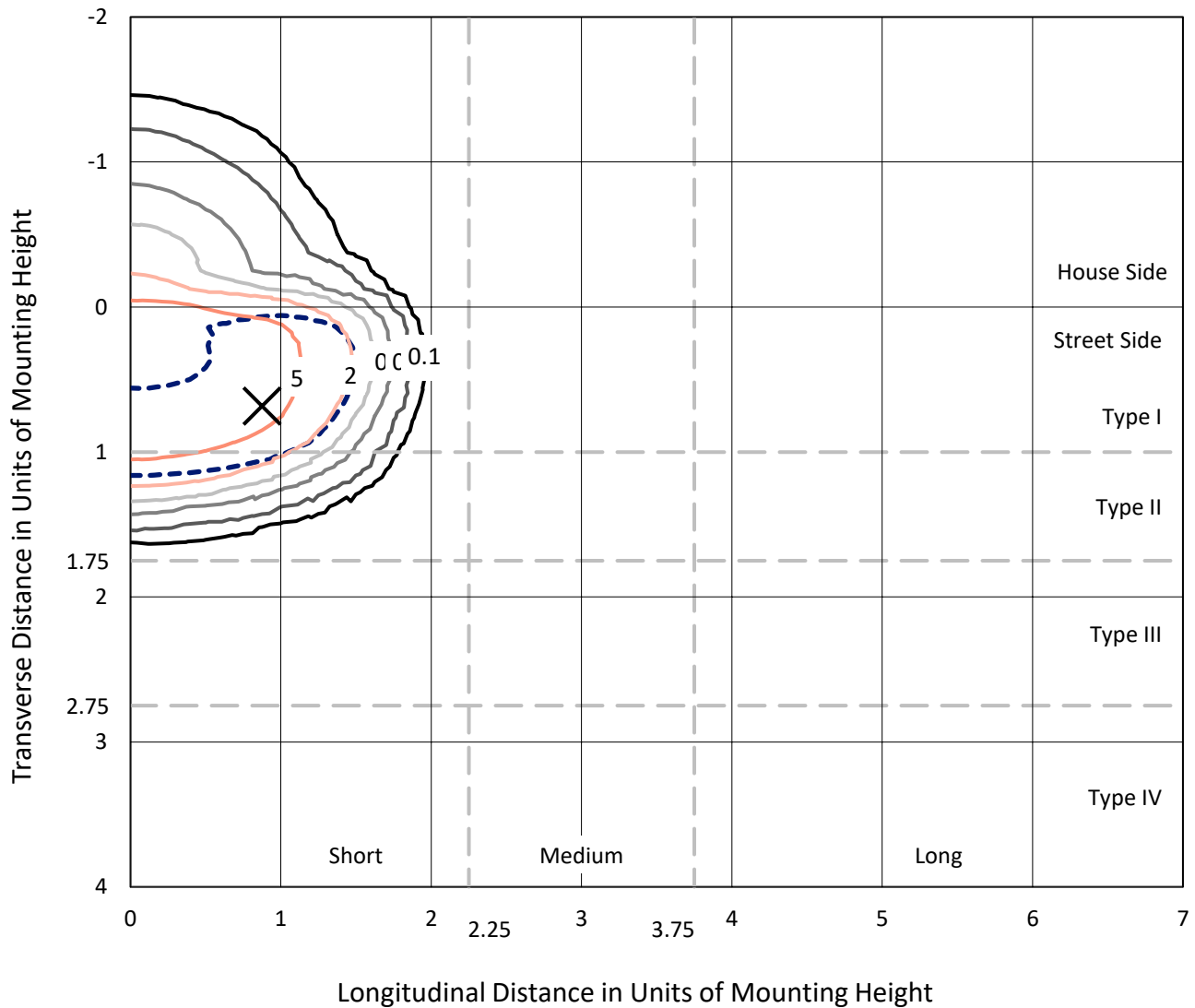


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

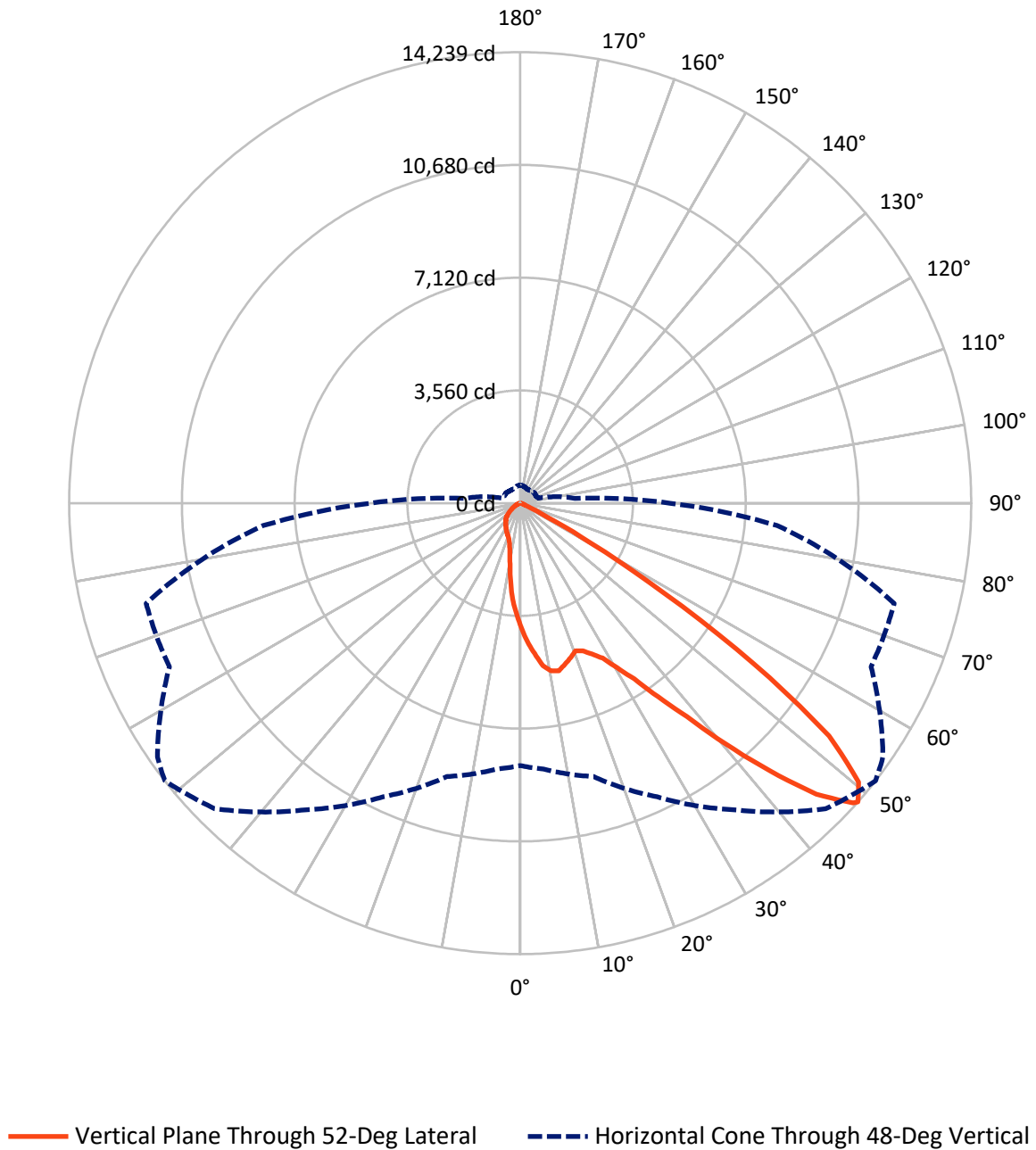


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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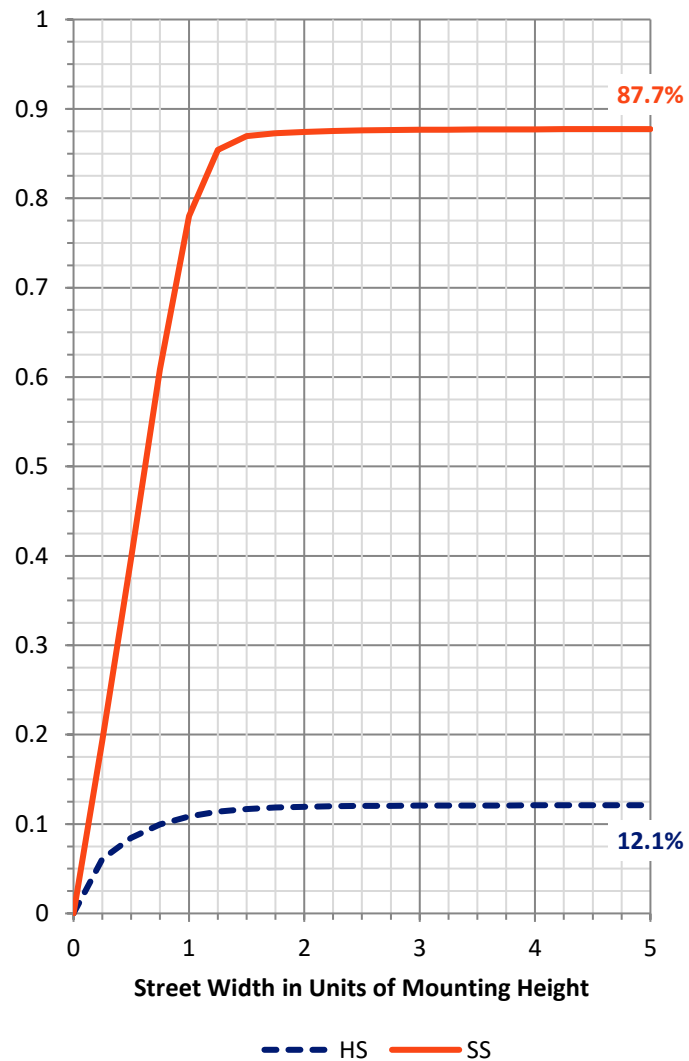
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.0	0.0	1653.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11923.0	0.0	11923.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	13576.0	0.0	13576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.8	2.6
10°-20°	937.8	6.9
20°-30°	1601.2	11.8
30°-40°	2948.6	21.7
40°-50°	4579.1	33.7
50°-60°	2755.8	20.3
60°-70°	318.7	2.3
70°-80°	61.7	0.5
80°-90°	14.3	0.1
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°	13576.0	100.0
0°-180°	13576.0	100.0

Coefficient of Utilization



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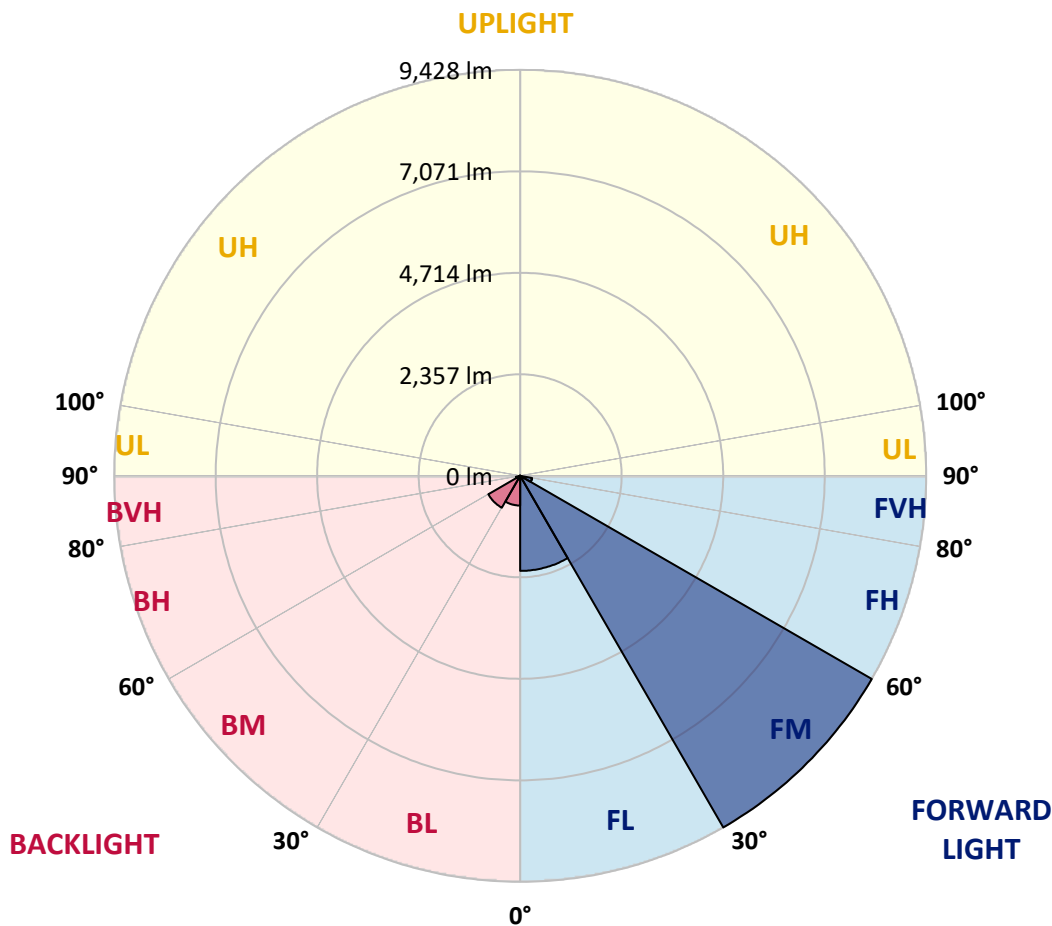
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.3	16.3			
FM	(30°-60°)	9428.3	69.4			
FH	(60°-80°)	280.7	2.1			G0/660
FVH	(80°-90°)	6.8	0.1			G0/10
BL	(0°-30°)	690.5	5.1	B2/1000		
BM	(30°-60°)	855.2	6.3	B1/1000		
BH	(60°-80°)	99.8	0.7	B0/110		G0/110
BVH	(80°-90°)	7.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5
2.5°	4751.7	4642.9	4652.8	4581.5	4540.0	4472.7	4381.6	4363.8	4264.9	4130.3	3993.7
5°	5179.2	5153.5	5187.1	5084.2	5088.2	4977.3	4763.6	4767.6	4540.0	4320.3	4108.5
7.5°	5206.9	5147.5	5181.2	5272.2	5325.7	5305.9	5185.1	5080.3	4864.5	4541.9	4233.2
10°	4662.7	4775.5	4811.1	4961.5	5175.2	5400.9	5387.0	5392.9	5212.9	4791.3	4340.1
12.5°	4336.1	4260.9	4381.6	4472.7	4795.3	5232.6	5432.5	5476.1	5489.9	5032.8	4447.0
15°	4187.7	4187.7	4207.5	4233.2	4466.7	4870.5	5278.2	5404.8	5703.7	5349.4	4615.2
17.5°	4280.7	4276.8	4304.5	4251.0	4338.1	4648.8	5135.7	5280.1	5943.1	5660.1	4747.8
20°	4563.7	4577.6	4559.8	4405.4	4411.3	4644.9	4977.3	5204.9	6105.4	5929.3	4923.9
22.5°	4957.6	4965.5	4864.5	4696.3	4646.8	4761.6	5068.4	5242.5	6236.0	6251.9	4977.3
25°	5412.7	5381.1	5361.3	5123.8	4973.4	5072.3	5274.2	5375.1	6317.2	6528.9	5129.7
27.5°	6044.1	5980.7	5860.0	5648.2	5537.4	5396.9	5541.4	5707.6	6548.7	6916.8	5296.0
30°	6976.2	6920.8	6685.3	6412.2	6121.2	5982.7	6028.2	6119.3	6966.3	7366.1	5515.6
32.5°	8379.4	8262.6	7922.2	7401.7	7005.9	6623.9	6612.0	6709.0	7340.3	7987.5	5776.9
35°	9925.0	9889.4	9388.7	8852.3	8086.5	7496.7	7506.6	7558.0	8056.8	8802.9	6119.3
37.5°	10952.1	11148.1	10829.4	10253.5	9610.3	8767.2	8553.5	8571.3	9040.4	9768.7	6736.7
40°	11745.7	11579.5	11617.1	11482.5	11043.2	10469.2	9996.2	9903.2	10178.3	10837.3	7350.2
42.5°	11399.4	11407.3	11638.9	11957.5	12066.3	12024.8	11541.9	11365.8	11152.0	11712.1	7934.1
45°	10421.7	10625.6	10926.4	11769.5	12509.7	13204.3	13109.3	12816.4	11824.9	12404.8	8270.5
47.5°	8862.2	8854.3	9347.1	10443.5	12088.1	13714.9	14146.3	13940.5	12301.9	12327.6	8201.2
48°	8286.3	8428.8	8937.4	10227.8	11820.9	13639.7	14239.4	13980.1	12220.7	12224.7	8141.9
50°	6125.2	6099.5	6732.8	8316.0	10558.3	12816.4	13847.5	14049.4	12218.7	11704.2	7726.3
52.5°	3235.8	3346.6	3807.7	5228.7	7465.0	10489.0	12214.8	12529.4	11787.3	10853.2	7128.6
55°	1375.4	1242.9	1597.1	2361.0	4199.6	7007.9	8961.2	9661.8	9966.6	9604.4	6236.0
57.5°	490.8	536.3	617.5	888.6	1765.3	3835.4	5343.5	5887.7	6904.9	7047.4	4249.0
60°	314.7	320.6	346.3	407.7	663.0	1478.4	2535.2	2968.6	3429.7	3540.5	1983.0
62.5°	243.4	245.4	257.3	267.2	314.7	573.9	951.9	1128.1	1171.6	1007.3	520.5
65°	203.8	205.8	209.8	209.8	223.6	269.2	332.5	366.1	356.2	352.3	294.9
67.5°	156.3	160.3	168.2	168.2	176.1	164.3	184.1	195.9	221.7	269.2	251.3
70°	122.7	124.7	130.6	134.6	134.6	118.7	132.6	144.5	162.3	199.9	197.9
72.5°	95.0	99.0	102.9	102.9	97.0	81.1	95.0	104.9	116.8	138.5	134.6
75°	73.2	73.2	75.2	61.4	47.5	41.6	57.4	69.3	87.1	91.0	75.2
77.5°	19.8	21.8	19.8	17.8	19.8	29.7	37.6	43.5	55.4	55.4	49.5
80°	0.0	2.0	5.9	11.9	19.8	27.7	33.6	37.6	43.5	47.5	45.5
82.5°	0.0	2.0	5.9	11.9	17.8	21.8	29.7	31.7	35.6	41.6	41.6
85°	0.0	2.0	4.0	7.9	11.9	13.9	13.9	11.9	11.9	9.9	7.9
87.5°	0.0	0.0	2.0	4.0	4.0	5.9	5.9	5.9	5.9	5.9	5.9
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°	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5	3920.5
2.5°	3940.3	3879.0	3785.9	3639.5	3499.0	3407.9	3320.9	3223.9	3170.5	3166.5	3136.8
5°	3987.8	3849.3	3627.6	3376.3	3107.1	2875.6	2642.0	2489.7	2353.1	2277.9	2264.0
7.5°	4013.5	3833.4	3475.2	3053.7	2594.6	2216.6	1955.3	1763.3	1688.1	1632.7	1630.7
10°	4067.0	3805.7	3247.6	2626.2	2058.2	1676.3	1496.2	1409.1	1367.5	1351.7	1328.0
12.5°	4106.6	3754.3	3014.1	2186.9	1626.8	1389.3	1310.1	1290.3	1292.3	1300.2	1290.3
15°	4162.0	3708.8	2699.4	1795.0	1365.6	1250.8	1250.8	1254.7	1282.4	1286.4	1284.4
17.5°	4158.0	3619.7	2374.9	1478.4	1207.2	1191.4	1197.3	1234.9	1252.7	1258.7	1244.8
20°	4205.5	3536.6	2040.4	1262.6	1118.2	1141.9	1181.5	1191.4	1213.2	1217.1	1201.3
22.5°	4191.7	3328.8	1729.7	1092.4	1050.9	1096.4	1136.0	1147.9	1141.9	1130.0	1128.1
25°	4165.9	3150.7	1444.7	979.6	1001.4	1050.9	1088.5	1066.7	1054.8	1056.8	1058.8
27.5°	4120.4	2925.1	1209.2	900.5	934.1	1007.3	1005.4	997.4	1009.3	999.4	1009.3
30°	4112.5	2699.4	1015.3	829.2	884.6	938.1	942.0	955.9	969.7	951.9	969.7
32.5°	4124.4	2452.1	876.7	785.7	855.0	856.9	900.5	914.3	904.4	864.9	868.8
35°	4215.4	2262.1	775.8	761.9	807.5	809.4	851.0	833.2	789.6	765.9	779.8
37.5°	4407.4	2103.7	728.3	740.2	744.1	769.9	771.8	736.2	740.2	738.2	746.1
40°	4652.8	1983.0	694.7	720.4	716.4	734.2	663.0	682.8	700.6	706.5	710.5
42.5°	4821.0	1895.9	672.9	688.7	680.8	649.1	609.6	629.3	643.2	665.0	668.9
45°	4896.2	1826.7	647.2	633.3	633.3	575.9	560.1	564.0	595.7	619.4	615.5
47.5°	4773.5	1759.4	601.6	560.1	573.9	526.4	508.6	508.6	542.3	571.9	566.0
48°	4726.0	1731.7	603.6	544.2	554.1	518.5	500.7	496.7	534.3	562.1	562.1
50°	4490.5	1628.8	552.2	500.7	480.9	477.0	465.1	469.0	492.8	518.5	518.5
52.5°	4031.4	1407.1	467.1	429.5	393.8	417.6	423.5	415.6	427.5	451.2	449.2
55°	3364.4	1080.6	374.0	356.2	328.5	354.3	366.1	356.2	344.4	362.2	362.2
57.5°	2155.2	581.8	298.8	302.8	275.1	300.8	310.7	287.0	265.2	279.0	277.1
60°	971.7	348.3	245.4	239.5	221.7	251.3	267.2	239.5	209.8	219.7	229.6
62.5°	364.1	247.4	186.0	182.1	178.1	205.8	213.7	192.0	162.3	168.2	170.2
65°	267.2	217.7	148.4	134.6	142.5	162.3	158.3	136.6	116.8	116.8	120.7
67.5°	227.6	190.0	120.7	104.9	104.9	106.9	99.0	87.1	81.1	85.1	89.1
70°	178.1	150.4	95.0	81.1	73.2	65.3	57.4	55.4	49.5	55.4	53.4
72.5°	114.8	100.9	73.2	61.4	55.4	45.5	37.6	35.6	29.7	27.7	27.7
75°	61.4	61.4	57.4	49.5	43.5	35.6	29.7	23.7	15.8	11.9	11.9
77.5°	43.5	47.5	51.5	47.5	39.6	29.7	23.7	15.8	7.9	4.0	4.0
80°	41.6	47.5	51.5	45.5	39.6	29.7	21.8	11.9	5.9	2.0	2.0
82.5°	37.6	43.5	47.5	41.6	35.6	25.7	19.8	11.9	5.9	2.0	2.0
85°	7.9	9.9	11.9	11.9	13.9	17.8	13.9	9.9	4.0	2.0	2.0
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	4.0	4.0	2.0	2.0	2.0
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)