

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: P534431

Luminaire Tested: **GALN-SA9D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33280 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

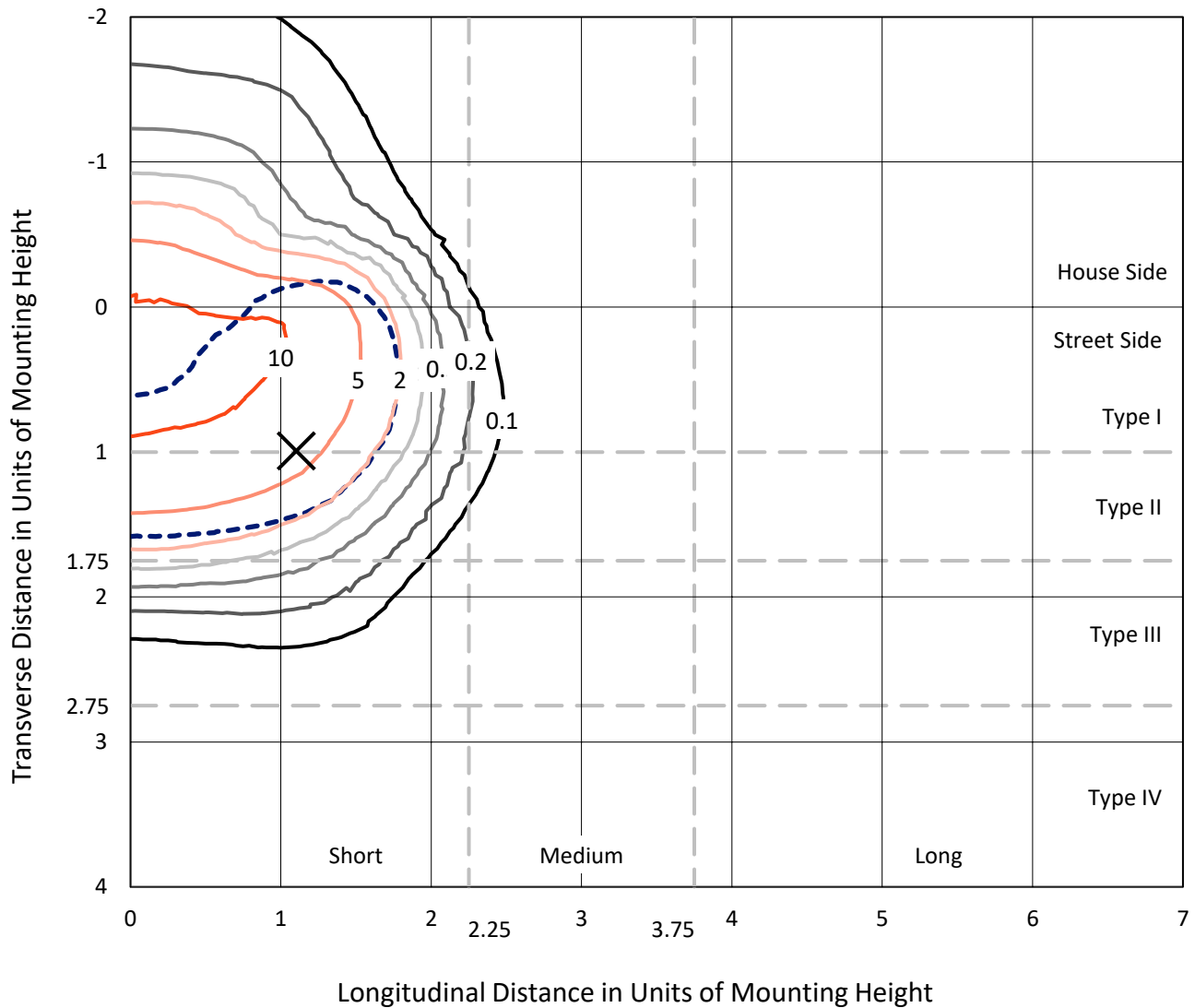
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

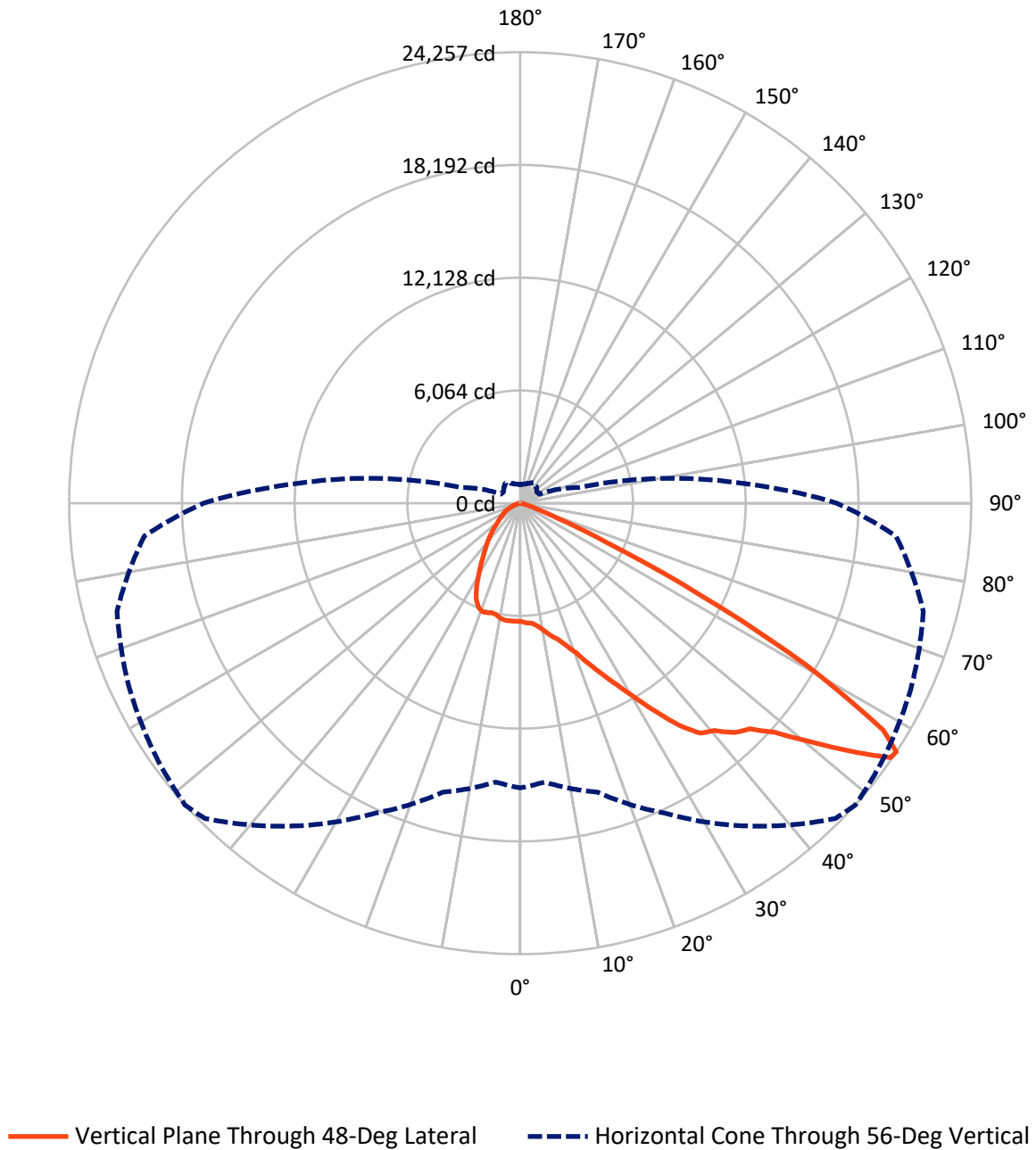
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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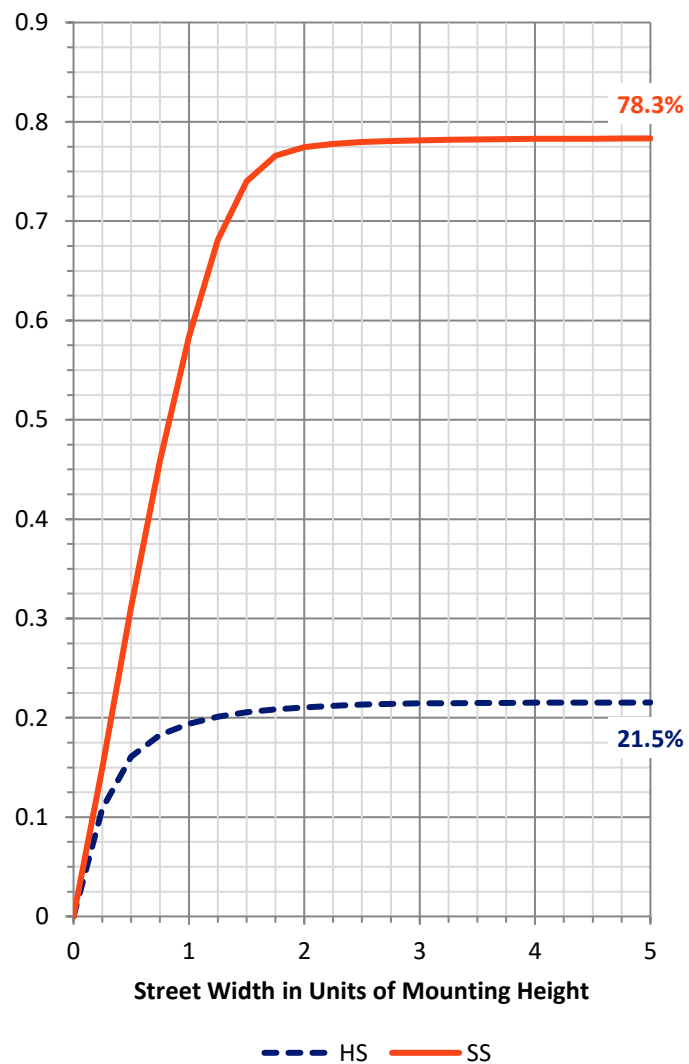
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7237.8	0.0	7237.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	26042.2	0.0	26042.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	33280.0	0.0	33280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.2	1.9
10°-20°	1978.8	5.9
20°-30°	3589.2	10.8
30°-40°	5637.9	16.9
40°-50°	8224.7	24.7
50°-60°	9909.2	29.8
60°-70°	2901.3	8.7
70°-80°	368.0	1.1
80°-90°	51.6	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°	33280.0	100.0
0°-180°	33280.0	100.0

Coefficient of Utilization



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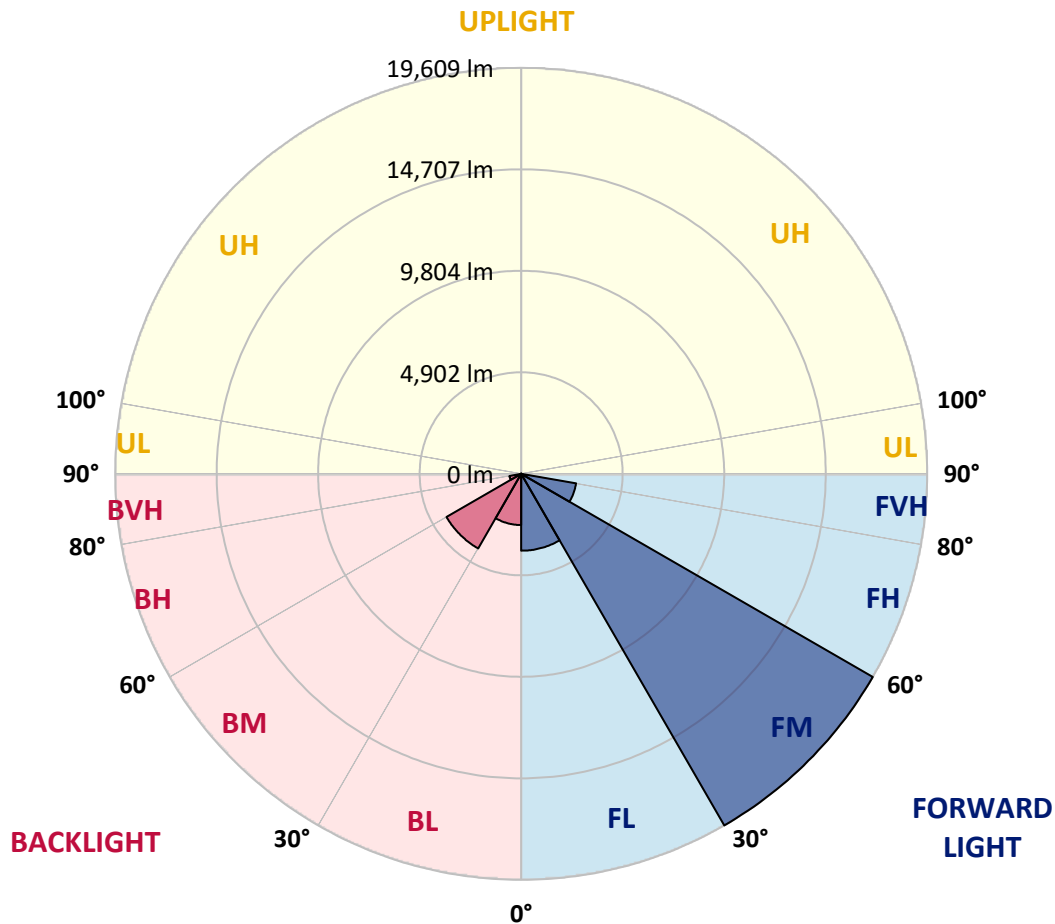
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3713.4	11.2			
FM	(30°-60°)	19608.7	58.9			
FH	(60°-80°)	2694.3	8.1			G2/5000
FVH	(80°-90°)	25.9	0.1			G1/100
BL	(0°-30°)	2473.8	7.4	B3/2500		
BM	(30°-60°)	4163.1	12.5	B3/5000		
BH	(60°-80°)	575.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	25.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5
2.5°	6471.6	6441.3	6441.3	6392.9	6447.4	6423.1	6441.3	6380.7	6441.3	6350.4	6423.1
5°	6501.9	6508.0	6483.7	6514.0	6514.0	6550.4	6489.8	6544.3	6574.6	6508.0	6477.7
7.5°	6659.5	6671.6	6665.5	6641.3	6689.8	6683.7	6677.7	6635.2	6647.4	6623.1	6586.8
10°	6968.5	6962.5	6992.7	6932.2	6895.8	6938.2	6950.3	6883.7	6835.2	6817.0	6701.9
12.5°	7416.9	7344.2	7301.8	7241.2	7259.4	7198.8	7307.8	7192.7	7168.5	7059.4	6944.3
15°	7780.5	7768.4	7774.4	7677.5	7568.4	7592.6	7592.6	7532.1	7495.7	7362.4	7198.8
17.5°	8525.8	8271.3	8325.9	8204.7	8113.8	8107.7	8053.2	8065.3	7968.3	7689.6	7441.2
20°	9107.5	8998.5	8913.6	8707.6	8568.2	8610.7	8586.4	8525.8	8495.5	8131.9	7780.5
22.5°	9628.7	9665.0	9525.7	9471.1	9277.2	9295.4	9343.9	9289.3	9059.1	8683.4	8162.2
25°	10361.9	10319.5	10131.6	10065.0	9883.2	9949.8	10137.7	10095.3	9949.8	9271.2	8459.2
27.5°	11228.4	11083.0	11119.3	10816.3	10640.6	10828.5	11052.7	11264.8	10852.7	9961.9	8810.6
30°	11840.4	11688.9	11676.8	11664.7	11622.3	11840.4	12101.0	12294.9	11961.6	10652.7	9392.3
32.5°	12143.4	12179.7	12282.8	12246.4	12616.0	13064.4	13337.1	13615.9	13197.8	11779.8	10161.9
35°	12949.3	12719.0	12949.3	12973.6	13355.3	14306.7	14652.1	15318.6	15215.6	13373.5	11101.1
37.5°	13422.0	13403.8	13434.1	13664.3	14034.0	15209.5	15700.4	16215.4	16021.5	14330.9	12270.6
40°	14203.6	14252.1	14246.1	14421.8	14827.8	15888.2	16088.2	16506.3	16524.5	15657.9	13991.6
42.5°	15458.0	15264.1	15136.8	15318.6	15888.2	16476.0	16875.9	16791.1	17391.0	17269.8	16203.3
45°	16585.1	16700.2	16512.3	16815.3	17021.3	17336.4	17324.3	17506.1	18269.6	18845.3	17869.7
47.5°	17639.4	17712.1	17803.0	18009.1	18457.5	18505.9	18402.9	18324.2	19378.5	19972.4	19160.4
50°	18269.6	18336.3	18760.4	19130.1	19966.3	20075.4	20136.0	19936.0	20651.0	20717.7	20378.4
52.5°	18100.0	18172.7	18766.5	19984.5	21317.6	22317.4	22135.6	21796.3	21753.9	22014.4	21505.4
55°	16597.2	16530.5	17348.6	19245.2	21741.8	24141.3	24165.6	23808.1	23123.3	22947.6	21335.8
56°	15318.6	15058.0	16100.3	18390.8	21196.4	23983.8	24256.5	23874.7	23232.4	22444.7	20287.5
57.5°	12549.4	12797.8	13834.0	15730.7	19311.9	22850.7	23008.2	22917.3	22432.5	21111.6	17851.5
60°	6920.0	7356.3	8271.3	10592.1	13749.2	17536.4	17663.7	18402.9	18493.8	16166.9	12282.8
62.5°	2938.9	2890.4	3841.8	5550.6	7829.0	10586.1	10822.4	11579.8	11719.2	9319.6	6162.6
65°	1193.7	1260.4	1739.1	2793.5	4138.7	4823.4	5156.7	5405.1	5865.7	3847.8	2272.3
67.5°	787.7	781.7	1024.1	1593.7	2229.9	2151.1	2151.1	2272.3	2102.7	1569.4	981.7
70°	563.5	581.7	733.2	1102.8	1387.6	1030.1	987.7	945.3	1072.5	1036.2	793.8
72.5°	369.6	393.9	490.8	660.5	721.1	563.5	563.5	678.7	884.7	836.2	648.4
75°	242.4	248.4	303.0	381.8	357.5	290.9	321.2	454.5	642.3	618.1	460.5
77.5°	163.6	169.7	206.0	248.4	200.0	163.6	175.7	230.3	315.1	315.1	242.4
80°	60.6	66.7	84.8	78.8	90.9	115.1	127.3	157.5	187.8	187.8	163.6
82.5°	0.0	6.1	18.2	42.4	66.7	90.9	103.0	121.2	139.4	157.5	151.5
85°	0.0	6.1	18.2	30.3	48.5	54.5	60.6	42.4	36.4	36.4	30.3
87.5°	0.0	0.0	6.1	6.1	6.1	6.1	6.1	6.1	12.1	6.1	6.1
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°	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5
2.5°	6356.5	6350.4	6350.4	6332.3	6368.6	6350.4	6362.6	6356.5	6277.7	6338.3	6295.9
5°	6423.1	6465.6	6398.9	6386.8	6338.3	6356.5	6356.5	6295.9	6350.4	6344.4	6332.3
7.5°	6592.8	6520.1	6447.4	6374.7	6362.6	6344.4	6277.7	6253.5	6295.9	6247.4	6320.1
10°	6665.5	6677.7	6568.6	6471.6	6380.7	6253.5	6162.6	6108.1	6041.4	6114.1	6156.5
12.5°	6998.8	6877.6	6689.8	6538.3	6229.2	6102.0	6011.1	5986.9	6102.0	6126.2	6083.8
15°	7113.9	7095.8	6853.4	6514.0	6192.9	6041.4	6059.6	6011.1	6023.2	5962.6	5974.7
17.5°	7350.3	7144.2	6859.4	6435.3	6186.8	6150.5	6041.4	5847.5	5738.4	5689.9	5732.4
20°	7610.8	7410.9	6998.8	6465.6	6241.4	6144.4	5786.9	5550.6	5326.4	5205.2	5211.2
22.5°	7841.1	7592.6	6938.2	6477.7	6289.8	5889.9	5459.7	4993.1	4714.3	4526.5	4532.6
25°	8119.8	7768.4	6962.5	6501.9	6162.6	5483.9	4865.8	4411.4	4078.1	3950.8	3993.3
27.5°	8277.4	7877.4	7095.8	6556.5	5829.3	4908.3	4241.7	3817.5	3623.6	3563.0	3557.0
30°	8750.0	8119.8	7259.4	6447.4	5271.8	4290.2	3672.1	3411.5	3223.7	3169.2	3181.3
32.5°	9452.9	8562.2	7471.5	6162.6	4702.2	3738.8	3302.5	3108.6	2932.8	2829.8	2817.7
35°	10040.7	9319.6	7695.7	5720.2	4041.7	3314.6	3041.9	2799.5	2532.9	2417.8	2387.5
37.5°	11161.7	10174.0	7647.2	5053.7	3411.5	2999.5	2763.2	2466.2	2236.0	2078.4	2060.3
40°	12652.4	11173.9	7410.9	4241.7	2945.0	2720.7	2466.2	2181.4	1896.6	1763.3	1751.2
42.5°	14464.2	12397.9	6980.6	3417.6	2478.4	2442.0	2211.7	1884.5	1630.0	1533.1	1539.1
45°	15936.7	13446.2	6544.3	2745.0	2133.0	2169.3	1969.4	1660.3	1484.6	1405.8	1405.8
47.5°	17245.6	14155.2	6071.7	2266.3	1811.8	1896.6	1720.9	1539.1	1387.6	1327.0	1314.9
50°	18505.9	14876.3	5599.0	1836.1	1545.2	1630.0	1611.8	1466.4	1345.2	1272.5	1278.6
52.5°	19293.7	14991.4	4999.1	1502.8	1351.3	1448.2	1508.8	1375.5	1242.2	1199.8	1187.7
55°	18330.2	13506.8	3878.1	1236.2	1145.3	1272.5	1387.6	1236.2	1133.1	1060.4	1054.4
56°	17033.5	12076.7	3241.9	1139.2	1084.7	1224.0	1345.2	1181.6	1066.5	1024.1	993.8
57.5°	14421.8	9883.2	2393.5	1011.9	1005.9	1139.2	1278.6	1127.1	993.8	957.4	957.4
60°	8992.4	5562.7	1448.2	848.3	872.6	1011.9	1151.3	1005.9	884.7	884.7	902.9
62.5°	4096.3	2314.8	878.6	721.1	751.4	872.6	1024.1	908.9	842.3	908.9	921.1
65°	1393.7	999.8	636.3	575.7	593.8	721.1	878.6	921.1	915.0	957.4	981.7
67.5°	781.7	642.3	533.2	478.7	466.6	533.2	721.1	921.1	884.7	866.5	878.6
70°	660.5	545.4	472.6	424.2	406.0	430.2	557.5	696.9	624.1	606.0	593.8
72.5°	533.2	454.5	412.1	381.8	327.2	278.7	254.5	266.6	296.9	315.1	345.4
75°	375.7	345.4	345.4	309.0	236.3	175.7	139.4	115.1	78.8	54.5	60.6
77.5°	212.1	212.1	218.1	187.8	151.5	115.1	84.8	60.6	30.3	12.1	6.1
80°	145.4	157.5	169.7	151.5	127.3	103.0	72.7	42.4	18.2	0.0	0.0
82.5°	145.4	163.6	175.7	151.5	127.3	97.0	72.7	42.4	18.2	6.1	0.0
85°	30.3	36.4	42.4	48.5	72.7	72.7	54.5	36.4	18.2	6.1	0.0
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	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)