

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: P522621

Luminaire Tested: **GALN-SA1A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3680 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

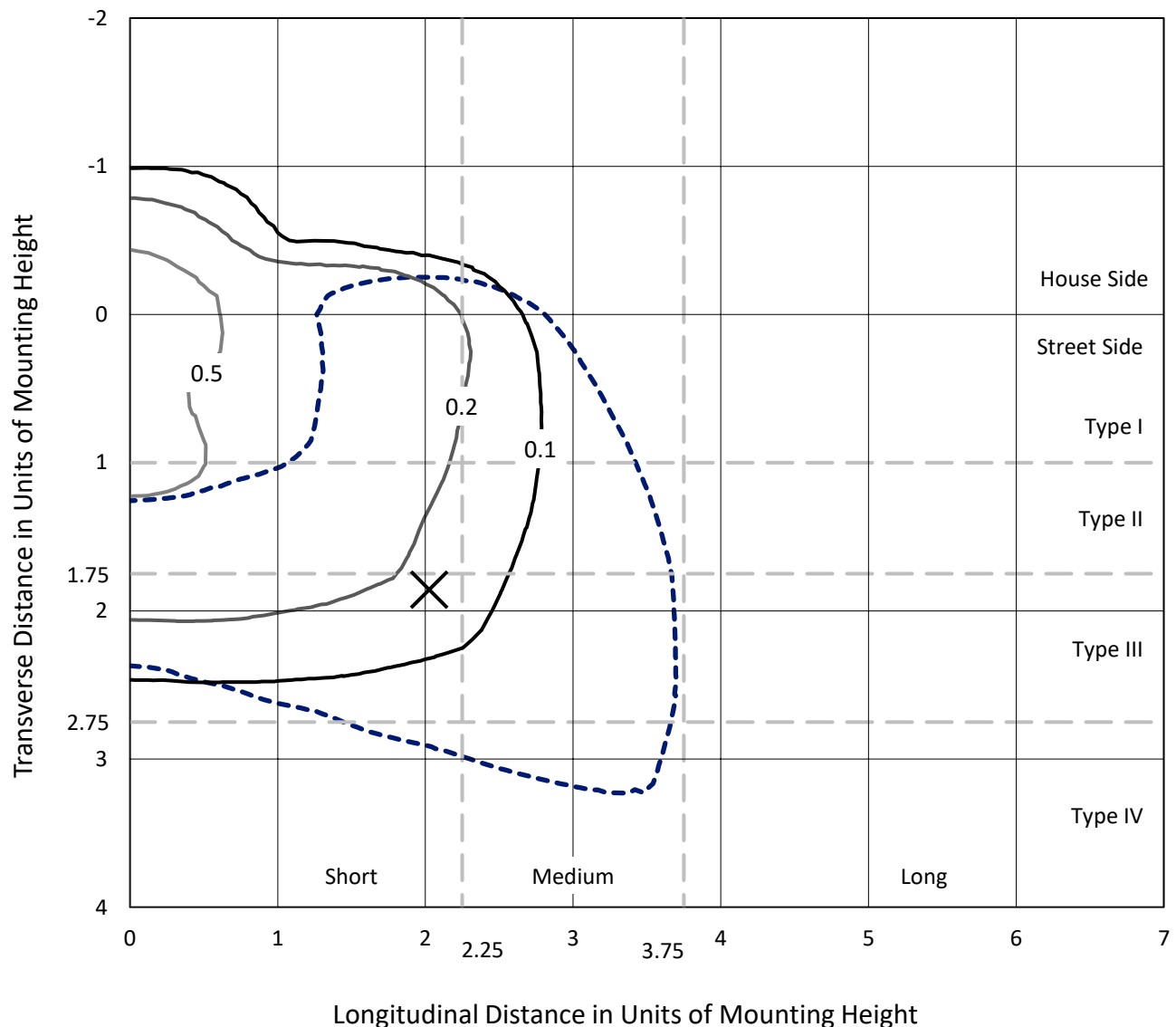


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

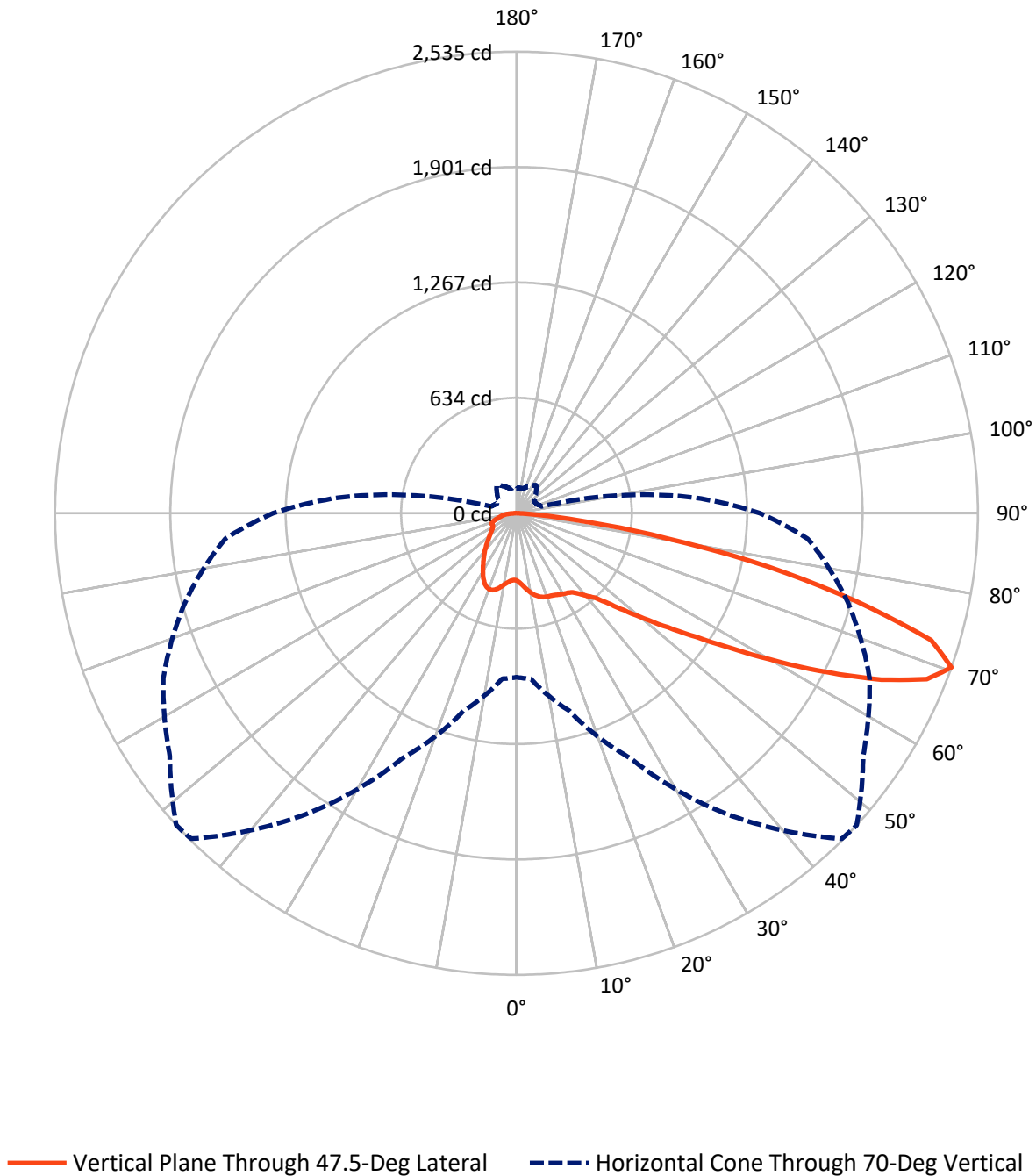


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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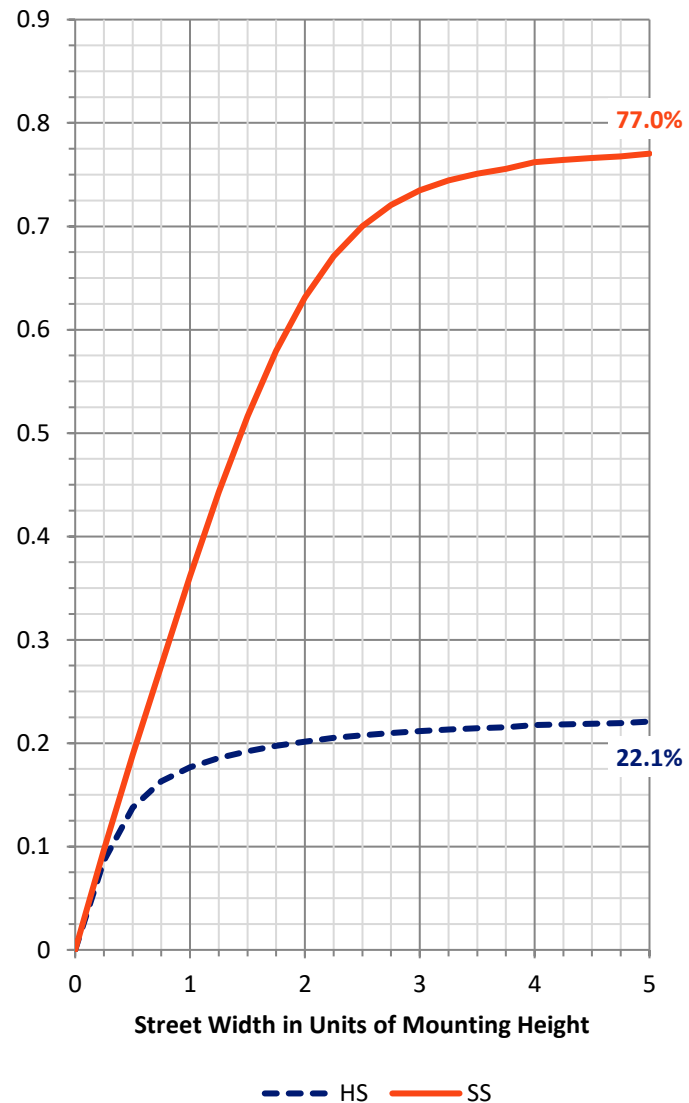
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	833.2	0.0	833.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2846.8	0.0	2846.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	3680.0	0.0	3680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	1.0
10°-20°	127.3	3.5
20°-30°	211.7	5.8
30°-40°	300.1	8.2
40°-50°	443.0	12.0
50°-60°	767.2	20.8
60°-70°	1083.7	29.4
70°-80°	623.0	16.9
80°-90°	86.0	2.3
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°	3680.0	100.0
0°-180°	3680.0	100.0

Coefficient of Utilization



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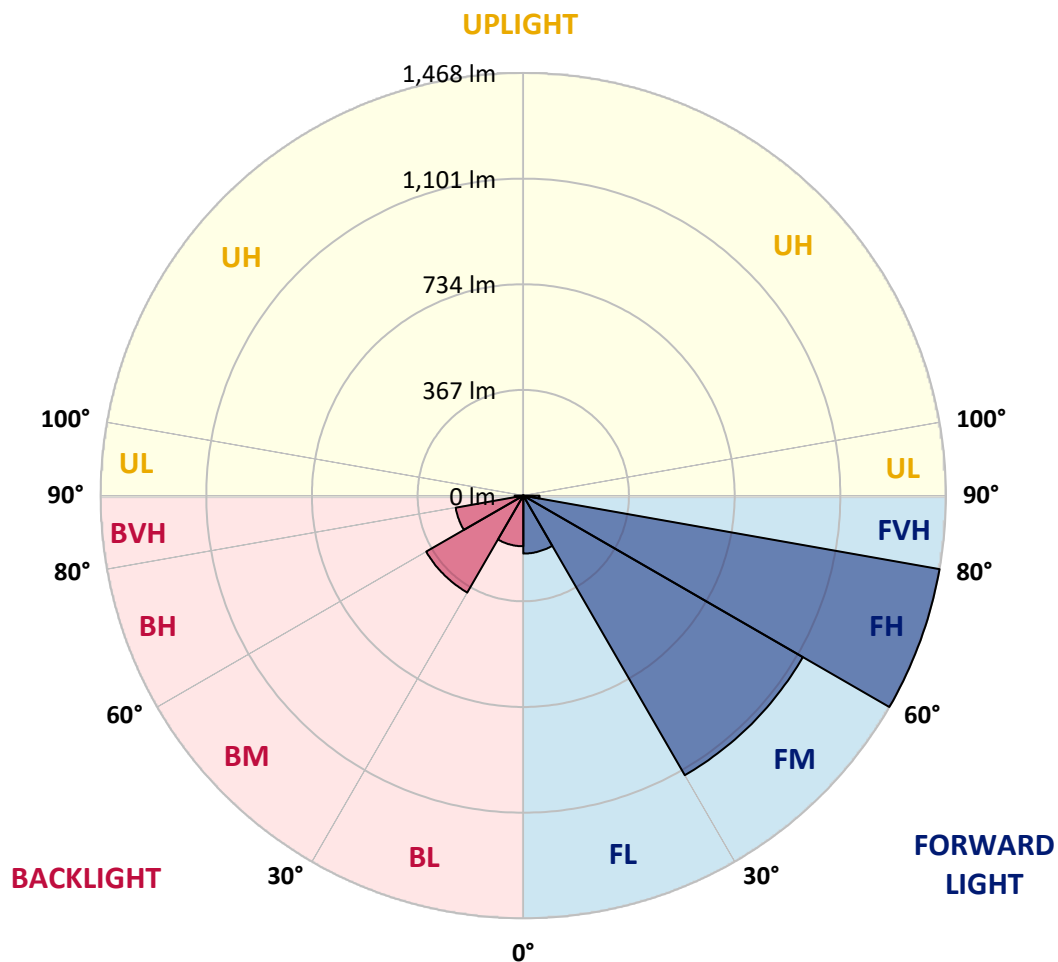
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	201.2	5.5			
FM	(30°-60°)	1121.2	30.5			
FH	(60°-80°)	1468.2	39.9			G1/1800
FVH	(80°-90°)	56.1	1.5			G1/100
BL	(0°-30°)	175.9	4.8	B1/500		
BM	(30°-60°)	389.0	10.6	B1/1000		
BH	(60°-80°)	238.5	6.5	B1/500		G1/500
BVH	(80°-90°)	29.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4
2.5°	393.3	391.9	391.7	388.7	387.2	384.2	383.0	380.3	376.9	373.6	370.4
5°	424.2	424.2	422.8	418.7	412.2	405.5	402.5	397.2	387.7	380.1	373.6
7.5°	455.9	456.3	453.5	447.4	438.2	427.3	424.6	416.7	403.3	392.1	382.4
10°	483.2	483.2	479.5	471.2	459.6	447.8	445.0	436.2	421.2	407.2	394.6
12.5°	504.1	504.1	499.2	488.4	475.8	465.1	462.0	453.5	439.5	424.0	408.0
15°	517.7	516.7	511.2	499.0	486.8	477.5	475.4	468.3	455.5	439.7	421.8
17.5°	518.3	517.9	512.6	502.4	491.7	485.4	484.0	479.3	469.3	454.3	435.4
20°	506.9	507.7	504.1	496.8	491.7	489.0	488.4	486.8	479.7	465.7	446.8
22.5°	494.7	496.0	492.7	488.8	488.4	491.1	491.5	491.9	487.4	473.8	456.5
25°	491.7	492.7	489.4	485.8	488.0	495.3	496.8	498.4	494.9	483.4	467.9
27.5°	506.7	505.9	499.4	491.7	493.1	502.9	505.1	506.9	505.1	495.3	482.1
30°	549.0	546.5	533.5	511.0	503.9	510.8	513.0	517.9	517.9	510.6	497.4
32.5°	619.9	615.0	591.2	547.1	522.4	518.3	520.5	528.5	532.7	527.0	512.6
35°	706.0	700.8	666.8	607.5	556.3	533.3	532.7	541.7	552.8	540.0	521.3
37.5°	792.4	787.1	746.1	679.6	605.7	564.8	561.2	564.4	569.1	545.7	533.3
40°	878.9	872.6	836.7	760.1	666.2	606.5	597.3	583.1	581.1	564.4	556.5
42.5°	964.5	958.8	940.7	850.5	738.7	647.3	633.1	608.7	616.2	606.1	599.2
45°	1051.0	1051.4	1032.1	951.9	826.1	722.5	703.4	665.2	682.9	679.2	683.1
47.5°	1127.6	1126.6	1119.7	1050.4	934.6	819.4	794.8	750.5	780.8	794.6	824.7
50°	1201.8	1201.2	1201.6	1162.0	1060.6	934.6	907.4	860.9	929.3	977.1	1031.1
52.5°	1308.2	1311.5	1287.7	1277.2	1213.8	1070.7	1040.7	992.7	1104.7	1180.2	1285.5
55°	1414.9	1412.1	1393.4	1404.3	1374.1	1231.8	1200.4	1162.2	1300.1	1382.6	1540.9
57.5°	1477.7	1478.7	1497.8	1550.8	1572.0	1432.6	1404.3	1374.7	1519.7	1578.1	1768.2
60°	1534.2	1538.8	1593.7	1693.7	1751.4	1679.4	1654.2	1625.4	1721.1	1744.3	1965.5
62.5°	1552.0	1565.9	1661.8	1811.5	1926.3	1957.8	1926.5	1863.1	1912.9	1903.9	2099.2
65°	1463.5	1482.6	1654.5	1855.6	2082.5	2222.1	2202.2	2084.4	2076.4	2021.8	2121.1
67.5°	1230.8	1249.9	1470.6	1763.1	2147.1	2450.9	2431.0	2245.9	2175.6	2032.8	1955.6
70°	900.5	912.5	1123.6	1484.4	2017.3	2527.7	2534.6	2324.7	2140.2	1883.0	1605.7
72.5°	518.9	545.5	693.4	1044.3	1648.0	2333.5	2381.4	2160.8	1916.1	1570.9	1122.7
75°	223.1	223.7	320.6	576.0	1116.2	1875.7	1922.0	1791.2	1504.7	1086.2	599.4
77.5°	106.1	108.1	141.0	257.2	614.4	1296.0	1420.8	1265.4	962.4	521.8	226.5
80°	68.9	70.3	86.3	127.6	301.3	751.5	838.5	730.0	424.6	186.5	97.7
82.5°	41.7	42.1	57.7	78.0	165.8	340.3	401.1	316.8	181.2	111.7	57.5
85°	25.4	25.6	35.1	48.2	100.6	117.6	120.7	119.7	106.3	73.1	30.7
87.5°	12.2	12.6	18.1	22.8	39.6	36.4	34.5	40.0	50.2	39.4	13.2
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°	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4	369.4
2.5°	369.0	368.4	367.1	366.5	366.1	366.3	366.1	366.1	366.3	366.3	366.3
5°	370.8	369.8	367.7	367.7	368.8	371.6	374.2	376.1	378.3	378.1	378.1
7.5°	378.5	376.7	374.2	374.9	377.9	382.2	386.8	391.1	395.4	395.8	395.6
10°	389.7	387.9	385.2	386.2	390.9	397.4	403.1	409.4	414.1	415.5	415.1
12.5°	402.5	399.0	396.6	399.4	406.8	415.5	421.0	425.7	429.1	431.1	430.3
15°	415.5	412.2	409.4	415.1	424.2	432.2	435.0	435.8	436.4	438.4	438.0
17.5°	428.1	423.6	422.6	430.1	438.7	442.3	440.7	437.4	434.8	436.4	436.2
20°	439.3	435.8	435.4	442.9	446.2	442.9	436.2	430.3	425.7	426.1	425.9
22.5°	450.0	447.2	447.6	450.8	445.4	434.0	423.0	414.9	410.0	411.0	411.6
25°	461.8	459.0	460.0	454.9	437.4	417.5	401.5	394.6	392.7	394.6	396.0
27.5°	477.1	475.4	474.8	455.1	423.0	393.1	374.9	372.4	374.2	378.5	380.7
30°	493.7	493.7	490.5	451.7	403.3	363.7	348.0	348.4	354.5	360.6	362.7
32.5°	509.6	513.0	503.1	442.7	377.9	335.2	323.2	323.5	328.9	336.3	338.3
35°	522.8	532.5	514.0	426.1	348.0	311.1	302.1	296.8	297.0	302.7	304.2
37.5°	540.9	558.9	520.3	401.5	316.1	290.7	280.4	271.2	265.1	262.7	262.7
40°	572.5	598.8	521.8	365.1	285.9	271.2	256.6	245.6	233.7	223.1	221.1
42.5°	625.8	659.1	518.7	323.2	258.8	249.7	235.5	221.9	205.6	190.6	189.4
45°	720.3	737.5	510.2	279.6	234.5	229.0	215.2	200.5	183.1	169.7	168.8
47.5°	871.8	847.6	499.0	241.0	212.5	210.9	200.3	183.1	165.8	156.6	155.6
50°	1092.9	1020.8	497.4	213.1	194.8	195.5	186.9	171.1	156.0	148.3	147.1
52.5°	1359.2	1230.2	507.9	193.4	179.2	182.2	177.8	163.2	149.9	143.4	142.2
55°	1617.5	1418.4	514.2	178.0	164.6	170.1	170.7	158.5	146.3	139.8	139.0
57.5°	1827.2	1560.2	486.2	164.0	152.0	160.5	164.8	155.8	144.5	139.6	138.8
60°	1973.2	1627.2	406.6	151.6	142.8	152.8	162.7	156.0	148.9	149.5	149.9
62.5°	2019.6	1597.4	305.0	142.4	136.5	150.3	166.2	164.0	156.8	161.3	162.1
65°	1942.6	1474.6	221.1	135.1	131.0	152.0	176.8	169.9	154.0	157.3	157.3
67.5°	1684.9	1270.4	172.1	128.4	124.7	155.4	187.5	169.4	147.5	151.4	147.9
70°	1336.5	982.6	143.4	120.9	118.0	150.4	188.5	163.2	139.8	140.6	133.9
72.5°	886.9	646.1	123.3	113.8	107.7	135.3	180.4	155.4	132.3	127.8	121.1
75°	434.6	322.2	107.5	105.0	94.3	117.8	169.4	147.9	124.3	117.2	113.4
77.5°	168.4	137.1	91.8	93.7	82.1	103.8	154.8	137.3	113.6	104.0	101.0
80°	81.7	77.8	75.2	78.2	67.5	88.4	141.4	128.0	103.8	93.1	88.8
82.5°	50.8	48.0	57.7	60.8	52.0	80.7	134.1	120.1	91.4	77.2	73.6
85°	25.8	27.6	38.6	41.6	37.2	64.2	110.5	90.2	66.0	54.7	55.1
87.5°	9.8	13.2	20.3	21.9	19.9	33.9	60.8	52.6	42.3	28.8	26.6
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)