

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: P200683

Luminaire Tested: **GWC-AF-01-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T4FT-8030-600
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3439 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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

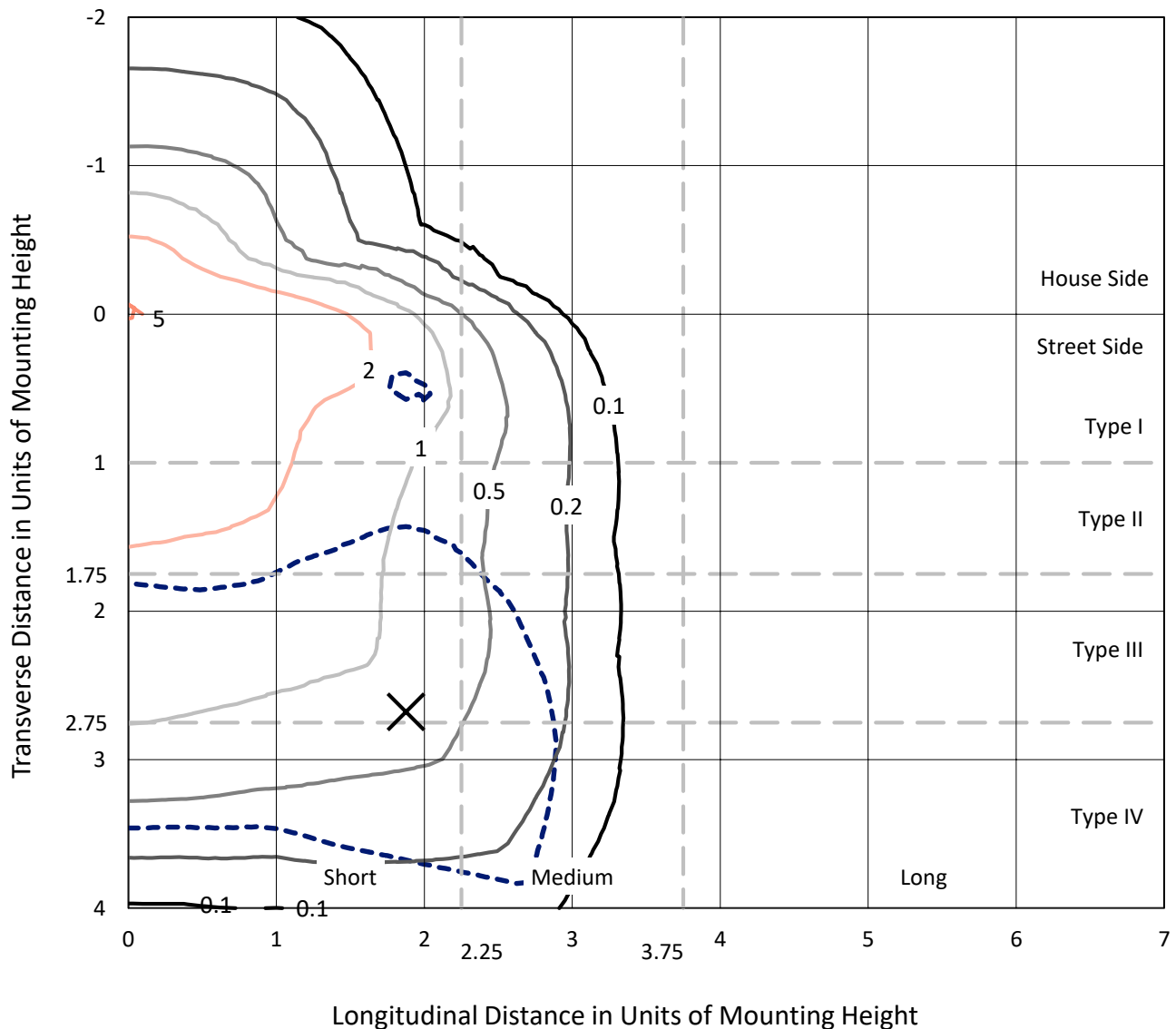


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

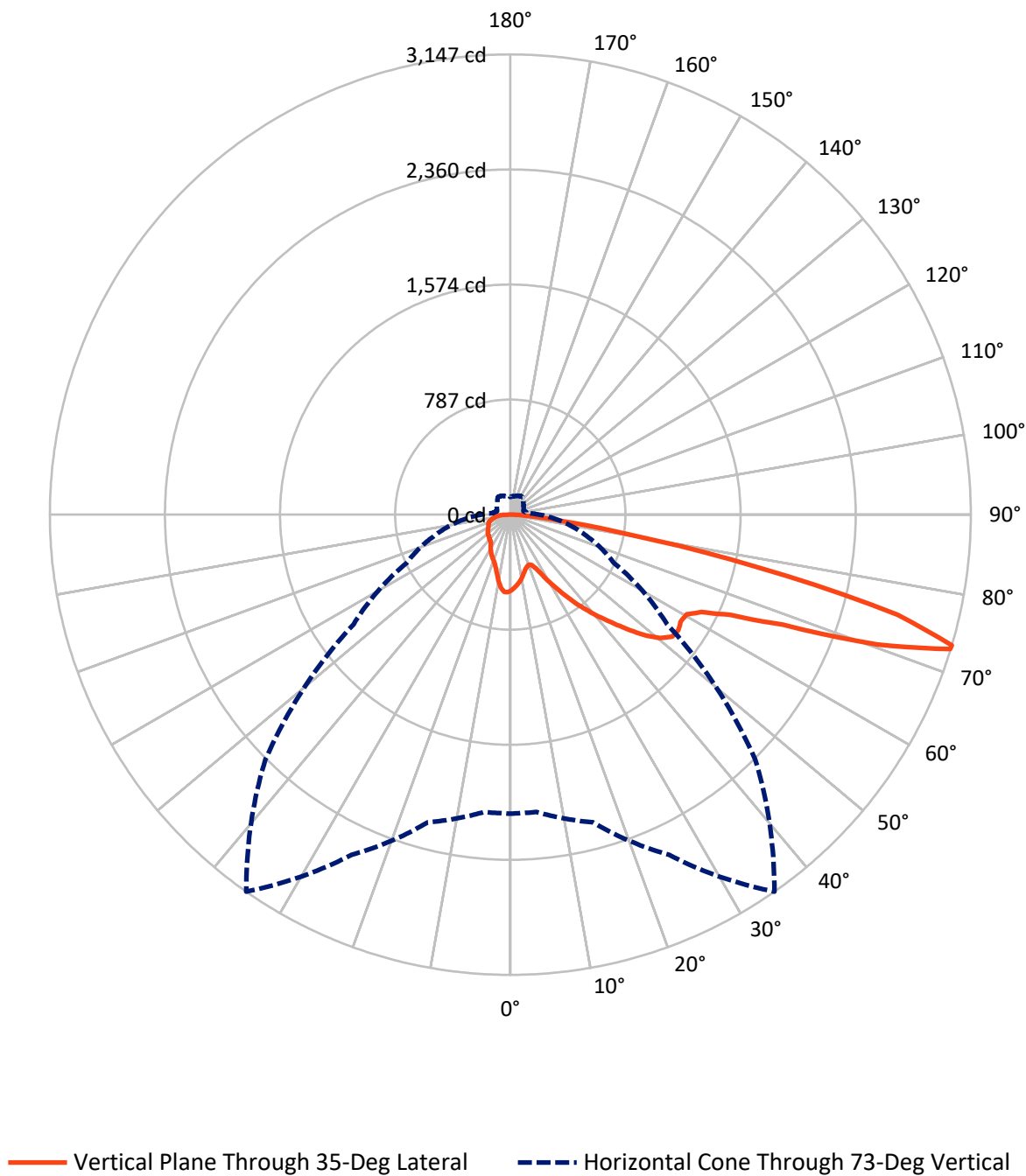


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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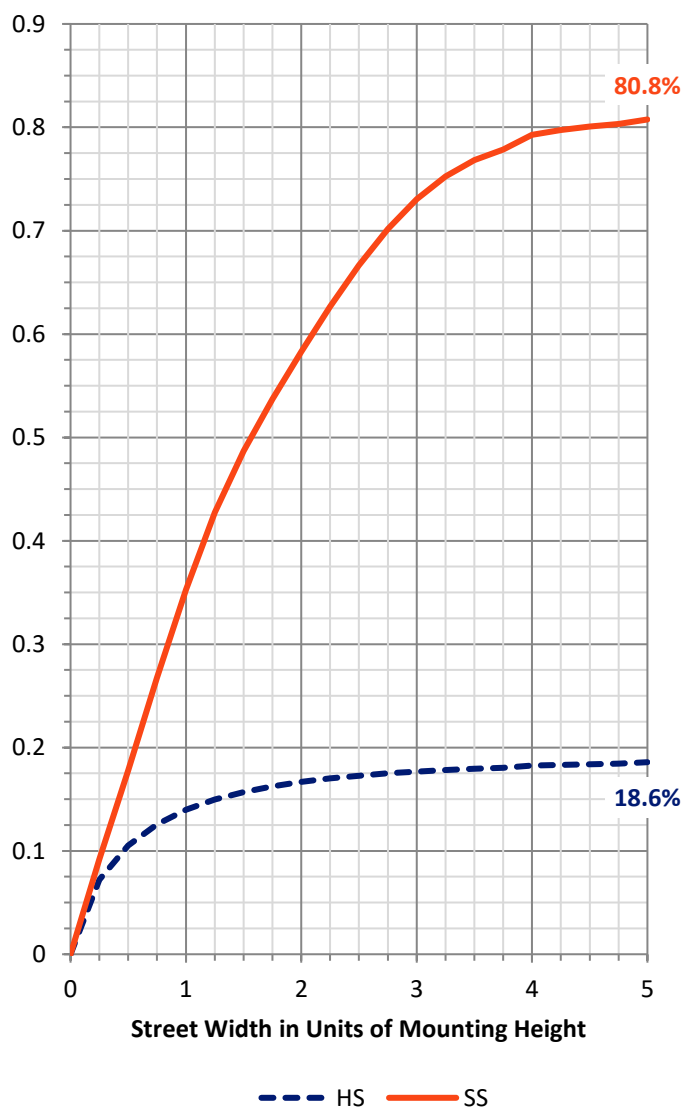
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	655.9	0.0	655.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	2783.1	0.0	2783.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	3439.0	0.0	3439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.4
10°-20°	117.3	3.4
20°-30°	189.6	5.5
30°-40°	317.9	9.2
40°-50°	490.1	14.3
50°-60°	657.5	19.1
60°-70°	875.9	25.5
70°-80°	668.0	19.4
80°-90°	75.7	2.2
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°	3439.0	100.0
0°-180°	3439.0	100.0

Coefficient of Utilization



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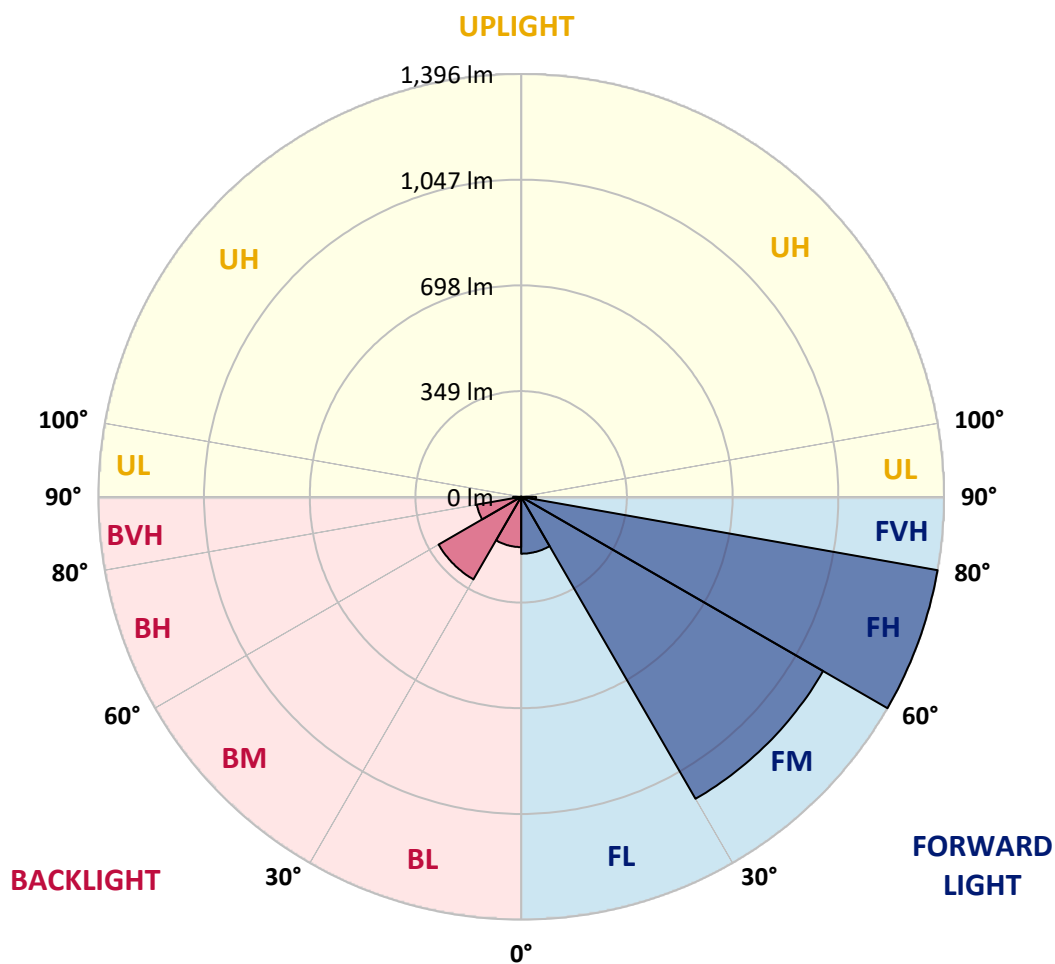
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.9	5.5			
FM	(30°-60°)	1150.7	33.5			
FH	(60°-80°)	1395.6	40.6			G1/1800
FVH	(80°-90°)	48.9	1.4			G1/100
BL	(0°-30°)	166.0	4.8	B1/500		
BM	(30°-60°)	314.8	9.2	B1/1000		
BH	(60°-80°)	148.4	4.3	B1/500		G1/500
BVH	(80°-90°)	26.8	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°	55°	65°	75°	85°	90°
0°	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1
2.5°	498.6	499.6	498.4	499.9	502.4	505.0	506.8	509.5	512.4	516.6	517.6
5°	475.1	476.6	476.6	479.3	484.0	488.3	492.3	496.6	502.9	510.0	512.8
7.5°	449.4	450.2	451.7	455.6	462.6	468.7	474.3	481.2	489.8	499.2	504.2
10°	418.3	419.5	421.8	427.4	436.8	445.2	453.3	462.9	473.8	485.5	491.8
12.5°	396.3	396.0	397.0	401.1	409.4	419.6	431.4	443.6	457.0	470.7	478.3
15°	388.9	387.1	383.3	382.3	386.8	397.0	410.6	425.6	441.6	458.1	467.5
17.5°	393.5	390.4	380.0	372.4	371.7	379.5	393.9	410.7	429.2	449.4	461.1
20°	422.6	415.2	389.6	371.9	365.8	369.6	382.1	400.0	421.8	448.5	463.6
22.5°	492.1	481.2	426.9	394.0	373.4	368.8	378.2	397.2	422.6	458.8	477.9
25°	593.4	577.8	491.0	449.2	406.6	382.0	384.1	403.6	434.3	482.6	505.7
27.5°	673.3	663.2	574.7	527.0	467.0	417.7	403.5	419.8	458.3	521.5	545.1
30°	720.9	714.7	664.2	615.2	544.2	474.5	440.4	450.2	495.8	575.5	595.0
32.5°	776.0	772.4	747.6	702.5	627.4	549.1	499.1	495.6	546.0	640.4	649.4
35°	833.2	832.0	817.5	785.1	716.7	647.5	576.9	553.4	600.6	707.8	702.2
37.5°	886.3	884.4	875.9	857.1	810.2	753.2	656.1	612.7	659.6	772.2	747.3
40°	984.3	968.7	939.8	925.6	904.7	842.2	719.0	668.0	720.7	833.7	786.3
42.5°	1103.7	1078.4	1024.6	1005.1	1002.1	912.4	762.0	721.7	782.3	894.6	824.6
45°	1197.6	1173.9	1127.4	1102.8	1113.7	976.0	805.1	779.0	845.7	958.5	864.0
47.5°	1297.9	1260.6	1199.1	1206.6	1230.3	1036.1	849.0	840.6	915.2	1030.0	913.1
50°	1301.5	1272.9	1246.0	1290.4	1327.4	1091.4	904.0	905.2	1000.3	1120.0	978.3
52.5°	1226.0	1219.9	1262.7	1332.6	1385.9	1135.2	966.6	971.9	1109.1	1223.4	1050.0
55°	1199.6	1192.7	1242.1	1317.9	1393.8	1171.4	1034.5	1044.0	1240.7	1332.4	1119.9
57.5°	1264.0	1248.7	1252.0	1310.9	1374.5	1211.0	1108.5	1127.8	1383.8	1427.7	1164.8
60°	1444.0	1411.2	1348.7	1347.3	1384.9	1270.5	1194.0	1217.6	1532.4	1473.3	1147.3
62.5°	1696.5	1663.7	1546.8	1470.6	1465.0	1368.6	1299.0	1305.3	1618.3	1411.5	1040.4
65°	1969.9	1940.5	1809.8	1702.3	1650.5	1531.1	1421.1	1344.4	1590.2	1241.6	853.5
67.5°	2301.6	2270.1	2157.8	2058.5	2008.7	1793.3	1506.8	1307.0	1412.0	961.8	613.5
70°	2533.7	2501.5	2457.2	2537.6	2659.7	2171.7	1517.9	1154.5	1054.6	639.3	369.3
72.5°	2230.9	2215.9	2296.7	2635.4	3143.7	2401.2	1372.0	840.6	612.5	339.4	213.7
73°	2044.0	2040.7	2178.4	2566.9	3147.2	2365.9	1308.1	781.3	525.3	300.2	195.4
75°	923.0	949.6	1251.5	1960.6	2734.3	1949.5	920.7	448.2	296.8	207.4	147.5
77.5°	221.8	231.0	391.6	931.1	1726.8	1161.8	417.2	221.6	189.8	146.5	107.7
80°	94.5	97.6	150.8	344.0	813.0	467.9	192.2	148.5	131.3	102.2	75.5
82.5°	52.5	55.8	85.5	156.1	328.1	159.5	117.3	103.4	86.4	61.6	49.0
85°	29.7	31.5	50.0	87.2	139.1	64.1	70.2	68.7	48.7	31.7	24.1
87.5°	14.0	15.2	24.1	40.5	54.5	25.1	35.7	39.3	30.6	19.3	12.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1
2.5°	518.7	521.7	525.2	527.0	528.6	530.6	532.6	532.6	532.9	533.1
5°	515.1	521.2	526.6	529.0	529.5	529.5	529.0	526.3	524.0	525.0
7.5°	507.5	516.4	521.0	520.2	513.9	506.7	500.6	493.1	489.3	488.7
10°	496.6	506.8	507.7	499.4	483.9	468.4	455.5	442.9	437.0	435.5
12.5°	484.5	493.9	488.7	471.7	446.7	424.1	407.7	395.0	389.4	387.9
15°	474.8	481.2	467.9	441.1	409.7	385.8	372.2	362.8	358.9	357.7
17.5°	469.7	471.0	446.6	410.4	377.0	357.0	348.6	344.2	342.7	341.9
20°	472.2	462.9	426.2	381.8	350.3	336.2	334.3	333.1	332.8	332.3
22.5°	484.5	460.4	407.6	354.7	326.8	320.7	322.4	322.2	321.9	321.5
25°	506.7	462.6	389.4	329.0	307.2	305.8	308.8	308.8	307.5	307.5
27.5°	535.9	467.0	369.1	304.5	289.3	289.5	291.8	291.2	289.7	288.7
30°	571.6	469.8	345.3	282.6	272.7	272.0	272.7	269.8	265.4	265.1
32.5°	608.1	466.4	317.7	263.1	255.0	253.5	253.0	249.0	243.9	242.4
35°	641.1	453.7	289.7	247.6	238.1	234.8	237.1	235.8	231.2	230.0
37.5°	665.2	430.0	264.4	233.8	226.1	225.3	226.7	227.2	221.8	220.6
40°	681.4	398.0	242.8	222.3	223.8	220.6	215.7	212.2	210.6	210.1
42.5°	694.4	364.6	224.6	216.8	224.3	215.2	204.4	198.8	201.8	203.1
45°	709.5	332.1	209.4	210.1	221.8	208.9	196.7	191.2	192.4	192.7
47.5°	730.1	292.5	193.1	199.2	213.5	204.6	191.9	184.1	178.7	176.2
50°	758.7	245.6	176.0	186.9	205.4	201.5	184.5	176.2	166.1	163.8
52.5°	778.5	201.8	162.0	176.7	198.2	195.2	178.5	167.8	157.2	155.2
55°	767.8	167.6	149.8	165.3	188.6	187.4	173.6	159.2	150.9	149.3
57.5°	714.1	146.0	140.4	154.6	176.9	180.8	167.0	151.9	146.0	144.8
60°	611.7	132.4	134.4	147.3	167.3	174.2	160.4	148.0	144.0	143.2
62.5°	474.6	123.4	130.0	142.0	159.9	169.6	156.7	147.5	146.0	145.0
65°	340.0	116.1	125.2	136.7	153.1	165.3	155.4	146.8	147.1	146.3
67.5°	231.0	109.7	119.4	130.8	146.5	161.5	153.6	144.5	148.6	147.6
70°	161.7	103.4	112.6	123.2	138.2	156.2	150.3	141.0	140.7	136.7
72.5°	126.2	95.1	103.4	112.6	127.7	148.8	143.7	133.3	127.8	123.7
73°	120.4	93.1	101.1	110.3	125.3	147.0	141.9	131.1	125.0	121.2
75°	99.6	84.6	91.8	100.1	115.4	138.4	132.9	121.4	113.6	111.3
77.5°	78.3	72.3	79.3	86.7	101.7	125.8	119.7	108.7	104.4	102.4
80°	58.0	59.9	66.1	72.7	88.2	112.5	107.0	95.9	115.1	110.3
82.5°	40.8	45.4	51.0	57.0	74.0	99.4	92.8	81.4	84.2	70.0
85°	24.1	29.7	35.0	40.1	53.3	82.4	76.6	64.9	53.2	50.7
87.5°	14.0	16.5	18.0	23.3	36.7	62.1	54.0	48.1	27.6	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)