

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: P193169

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972.7 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full 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

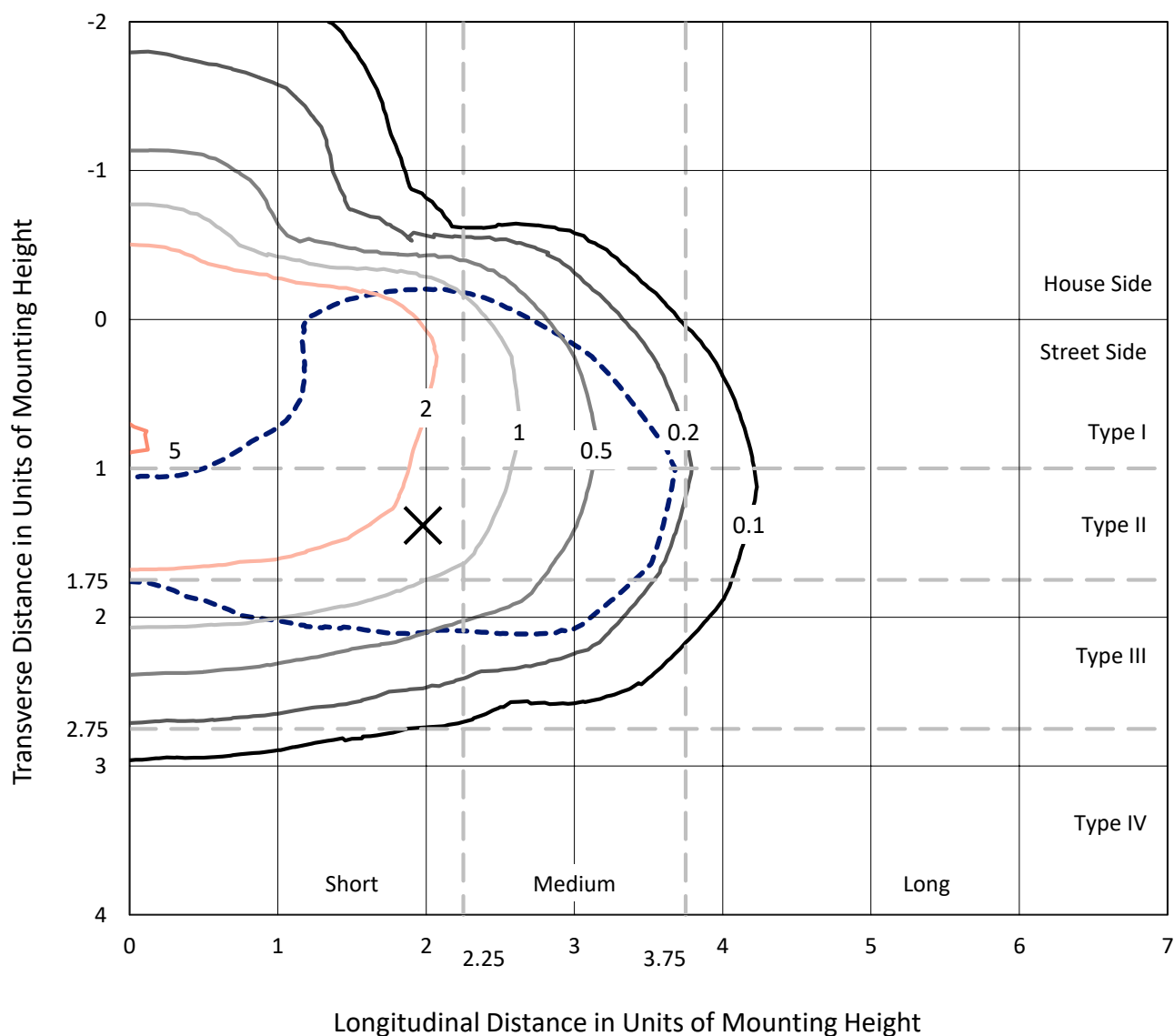


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

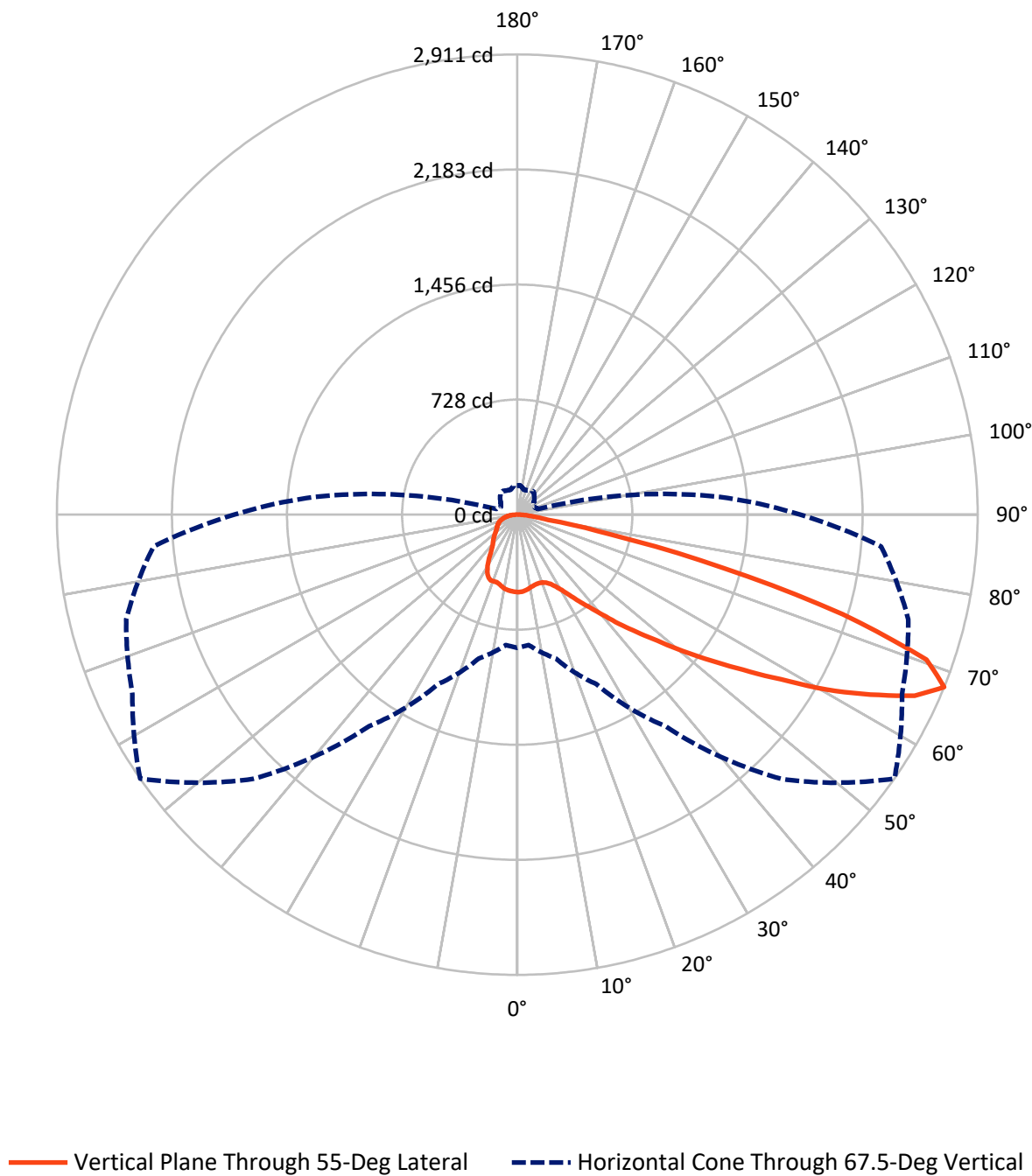


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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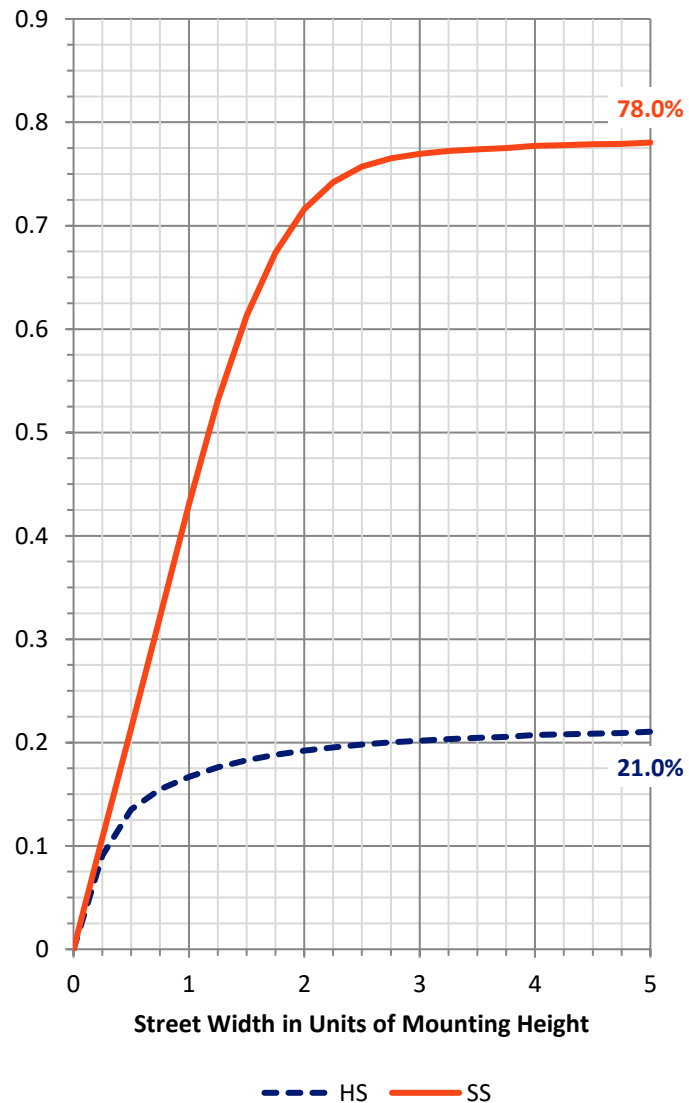
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.2	0.0	858.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	3114.5	0.0	3114.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	3972.7	0.0	3972.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	1.2
10°-20°	129.5	3.3
20°-30°	216.9	5.5
30°-40°	356.7	9.0
40°-50°	600.5	15.1
50°-60°	945.1	23.8
60°-70°	1127.9	28.4
70°-80°	484.3	12.2
80°-90°	66.0	1.7
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°	3972.7	100.0
0°-180°	3972.7	100.0

Coefficient of Utilization



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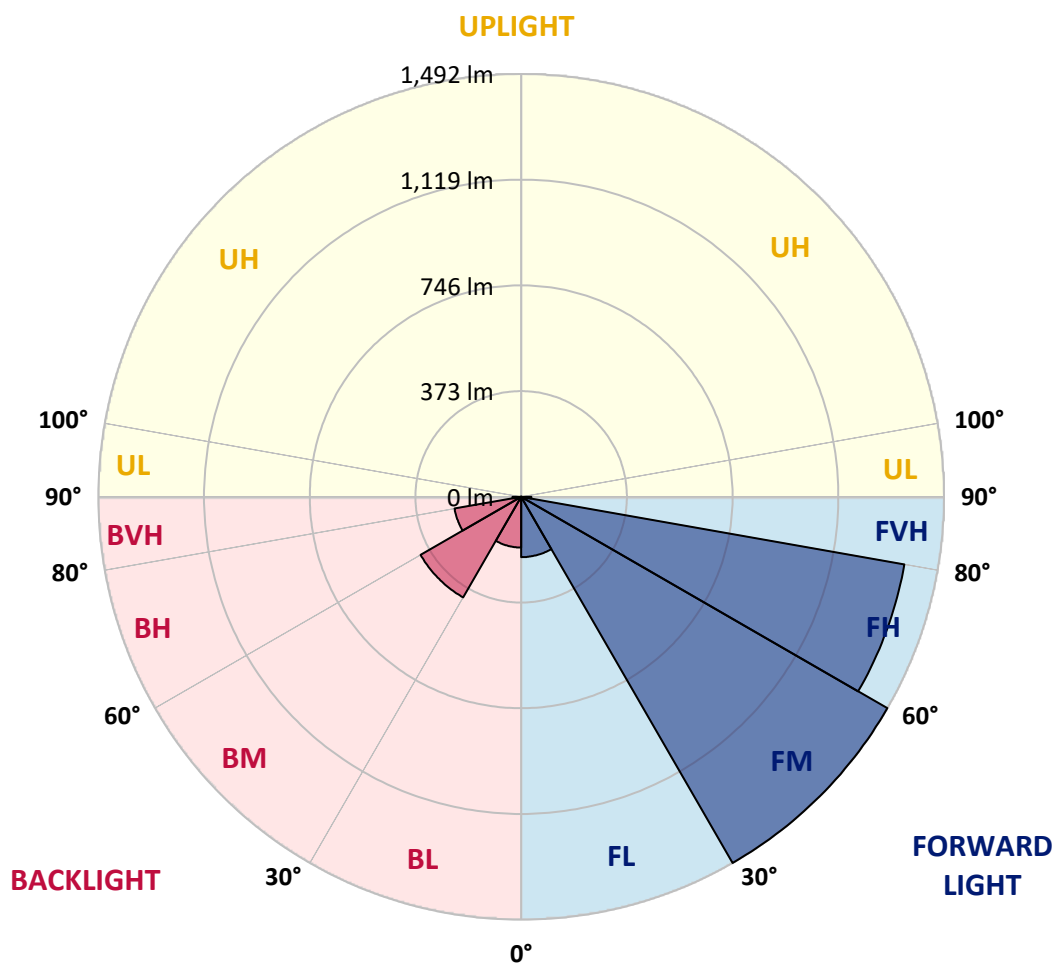
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.9	5.4			
FM	(30°-60°)	1492.4	37.6			
FH	(60°-80°)	1373.4	34.6			G1/1800
FVH	(80°-90°)	35.7	0.9			G1/100
BL	(0°-30°)	179.2	4.5	B1/500		
BM	(30°-60°)	409.9	10.3	B1/1000		
BH	(60°-80°)	238.8	6.0	B1/500		G1/500
BVH	(80°-90°)	30.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9
2.5°	485.6	485.8	486.2	487.8	489.2	488.7	488.9	488.2	488.0	486.7	488.0
5°	479.5	480.0	480.3	482.8	484.3	484.7	484.1	483.2	482.1	480.8	481.4
7.5°	465.6	467.1	467.2	470.7	473.2	476.5	476.6	476.8	476.3	475.5	476.6
10°	456.7	457.0	456.9	459.3	461.3	464.9	467.1	470.7	472.2	472.6	473.4
12.5°	456.0	455.7	455.2	455.2	454.5	456.0	460.0	465.1	468.7	470.0	470.9
15°	462.2	462.0	460.1	457.2	453.7	452.5	455.7	461.5	466.3	468.7	469.7
17.5°	476.1	474.9	471.9	465.3	457.5	454.4	454.7	459.6	465.1	468.4	469.4
20°	501.4	501.4	494.8	482.6	468.6	461.3	457.8	460.7	466.1	470.5	471.9
22.5°	545.1	545.5	534.6	514.4	490.8	475.3	466.6	466.1	472.4	477.4	478.9
25°	607.2	605.7	590.2	561.5	525.5	499.9	484.9	481.4	486.7	492.3	494.3
27.5°	679.3	673.7	655.4	620.7	574.2	536.7	513.6	508.0	513.3	519.6	521.5
30°	750.6	744.9	723.2	685.2	633.6	585.9	553.0	544.0	551.3	560.3	561.5
32.5°	822.0	822.0	797.8	753.6	697.3	644.9	605.4	594.6	606.7	617.7	620.1
35°	907.4	907.8	884.4	831.0	770.6	715.1	671.6	663.8	682.0	689.7	695.6
37.5°	1012.4	1014.5	984.3	919.9	853.7	795.3	743.5	732.8	751.0	771.9	791.1
40°	1125.8	1128.4	1095.3	1015.8	949.6	888.6	832.5	813.2	843.5	883.5	908.2
42.5°	1234.0	1247.8	1215.7	1134.0	1062.9	999.7	942.9	914.7	952.7	1013.0	1034.4
45°	1390.4	1400.3	1344.6	1270.4	1203.5	1132.9	1057.6	1027.9	1081.0	1157.0	1161.4
47.5°	1494.5	1487.1	1458.7	1412.6	1370.2	1304.2	1191.0	1158.3	1228.9	1318.4	1293.6
50°	1550.1	1552.3	1548.5	1551.2	1552.7	1511.3	1354.5	1309.8	1394.0	1502.1	1445.1
52.5°	1601.8	1586.5	1599.1	1662.1	1738.1	1722.7	1532.4	1485.7	1570.9	1705.9	1605.1
55°	1600.6	1577.2	1618.5	1729.6	1894.4	1912.1	1732.1	1678.4	1758.0	1924.4	1774.7
57.5°	1544.1	1545.3	1608.8	1754.1	2003.5	2090.1	1963.9	1883.3	1956.4	2145.9	1929.5
60°	1466.1	1476.7	1568.2	1750.2	2090.7	2236.2	2248.2	2104.3	2150.8	2347.1	2057.8
62.5°	1340.5	1351.6	1477.8	1708.3	2077.4	2376.8	2505.5	2354.7	2354.0	2469.2	2095.4
65°	1142.3	1139.0	1271.6	1551.9	1966.4	2480.8	2760.8	2571.4	2507.2	2471.0	2019.7
67.5°	842.4	827.7	941.6	1181.9	1634.4	2364.4	2911.0	2684.3	2559.3	2308.5	1788.7
70°	437.1	422.5	514.6	690.2	1074.9	1845.3	2744.7	2625.9	2444.0	1935.1	1401.4
72.5°	187.0	184.4	221.8	302.7	520.0	1064.4	2152.2	2272.8	2097.1	1441.7	963.4
75°	125.6	124.9	138.9	165.0	234.0	431.9	1346.8	1613.3	1534.3	894.0	541.9
77.5°	98.7	97.7	105.9	118.5	151.6	170.5	597.7	866.1	801.6	389.2	237.2
80°	77.1	76.4	81.5	88.5	109.0	107.4	196.6	344.6	266.7	149.1	115.3
82.5°	60.8	60.8	65.0	65.2	77.3	73.3	102.7	151.8	133.2	87.0	70.6
85°	55.6	55.6	60.1	48.7	50.5	46.2	63.7	90.0	84.4	35.7	30.7
87.5°	28.0	27.2	50.5	43.1	27.5	24.6	31.1	43.6	46.9	19.7	15.3
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°	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9
2.5°	487.7	487.4	487.8	488.0	489.5	491.5	492.5	493.9	494.6	494.3
5°	481.9	482.2	483.7	484.9	487.7	491.0	493.0	494.5	495.8	495.3
7.5°	477.0	478.0	480.3	481.3	482.8	483.7	483.6	484.1	485.2	483.9
10°	474.3	475.5	477.3	475.9	472.2	467.1	462.2	459.8	460.5	459.6
12.5°	471.7	473.2	471.9	465.6	455.3	448.6	445.0	445.3	447.1	447.4
15°	470.2	470.7	464.9	453.0	442.7	441.7	443.6	443.3	443.5	443.5
17.5°	470.2	468.6	457.8	445.9	441.5	439.8	433.9	426.3	423.1	422.0
20°	472.6	468.6	455.5	447.6	438.0	423.3	407.5	393.8	387.7	385.9
22.5°	480.0	473.2	462.0	448.4	421.2	396.4	371.5	355.0	343.8	342.0
25°	495.3	487.7	474.9	438.2	394.3	359.0	330.6	312.2	301.0	299.5
27.5°	521.7	516.7	481.9	415.8	358.6	320.7	294.6	280.4	272.0	271.5
30°	561.6	559.2	478.3	382.6	314.6	283.7	271.2	262.9	256.8	256.5
32.5°	625.3	605.2	467.1	342.1	274.6	257.6	252.3	247.4	242.5	242.5
35°	707.2	642.5	445.6	298.8	250.2	242.9	236.4	228.6	222.3	221.8
37.5°	803.6	665.5	407.0	263.9	238.7	233.2	223.6	211.9	200.7	198.8
40°	900.9	672.4	352.7	242.3	231.4	223.3	211.6	197.9	187.1	186.5
42.5°	990.1	659.2	295.1	227.6	224.1	213.4	201.1	188.8	180.4	180.2
45°	1065.0	624.8	246.7	213.6	216.5	204.4	193.4	183.4	176.9	175.6
47.5°	1135.3	576.3	212.8	198.8	208.8	199.4	190.1	180.8	174.4	173.5
50°	1217.1	523.8	189.0	184.4	202.0	197.6	192.9	183.0	172.5	171.3
52.5°	1316.1	478.5	170.5	171.7	196.8	200.0	199.7	189.6	171.2	169.6
55°	1426.6	428.3	156.3	161.3	194.8	204.2	201.5	195.7	172.3	170.0
57.5°	1535.4	369.6	146.6	153.5	191.6	203.8	193.2	184.9	175.1	171.7
60°	1617.0	290.7	139.1	146.6	184.9	197.4	184.2	173.2	174.4	172.0
62.5°	1622.4	224.7	130.1	140.6	174.9	191.1	178.3	168.0	176.9	174.6
65°	1527.0	169.8	121.5	133.6	163.9	187.1	172.5	165.2	182.1	179.6
67.5°	1285.7	136.6	114.1	126.3	153.0	178.6	167.2	162.6	186.8	182.3
70°	928.1	116.5	107.1	117.5	143.1	169.1	162.7	157.8	174.3	167.2
72.5°	571.4	100.9	99.0	105.8	135.7	159.1	155.8	148.7	157.0	151.5
75°	285.2	87.5	90.0	94.2	125.1	147.7	144.3	137.2	138.3	137.2
77.5°	136.6	74.9	79.4	82.7	111.5	134.9	131.2	124.0	122.6	122.8
80°	86.6	62.6	66.9	69.3	99.5	119.9	116.3	109.0	124.3	115.3
82.5°	54.1	50.8	52.0	56.3	86.8	104.4	99.5	93.1	112.1	88.6
85°	29.9	35.5	37.0	40.7	66.7	87.3	82.5	74.3	66.5	65.4
87.5°	17.8	21.1	21.7	24.4	44.9	63.2	55.8	53.0	43.9	43.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)