

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: P450387

Luminaire Tested: **GALN-SA1A-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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

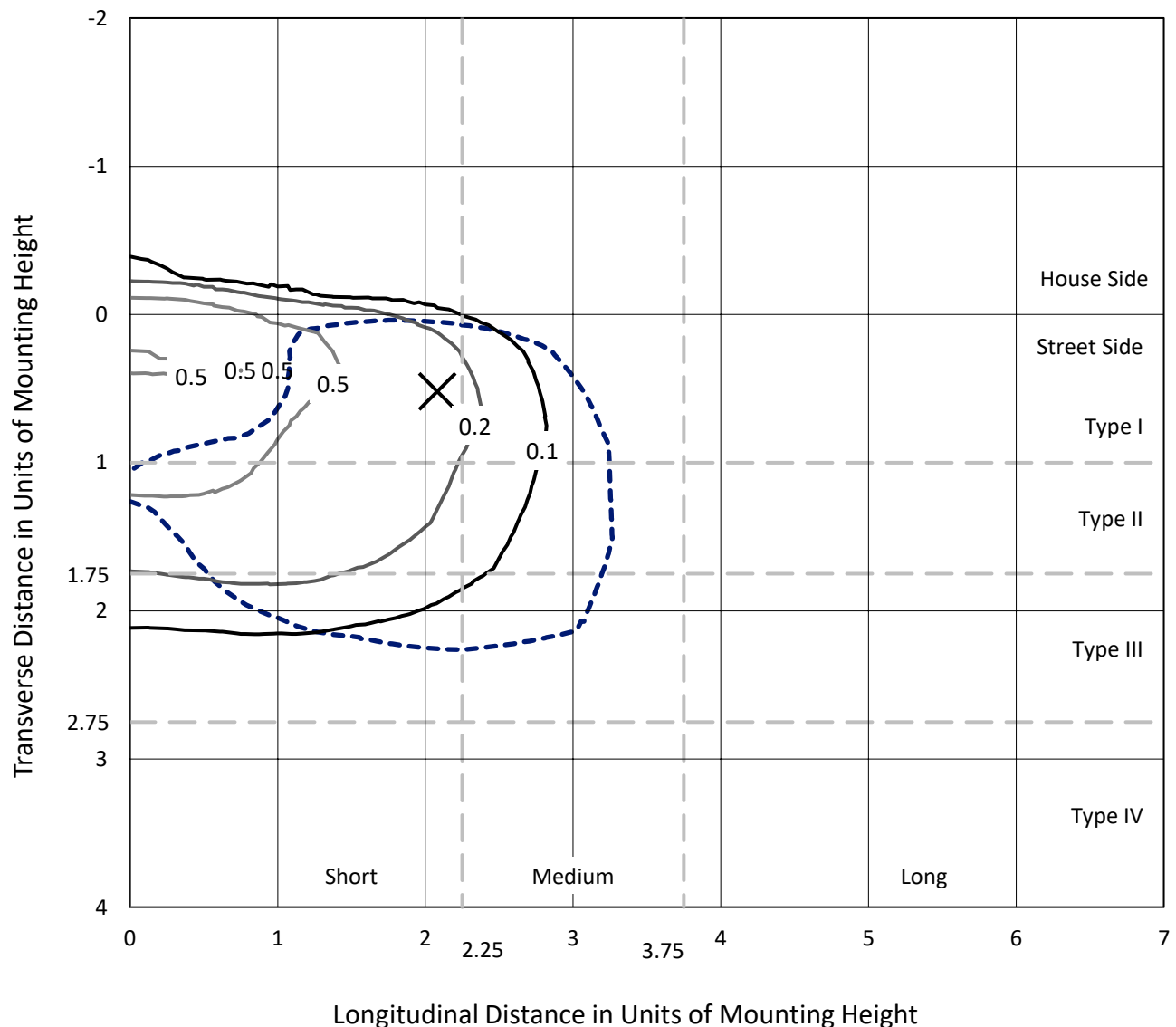


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

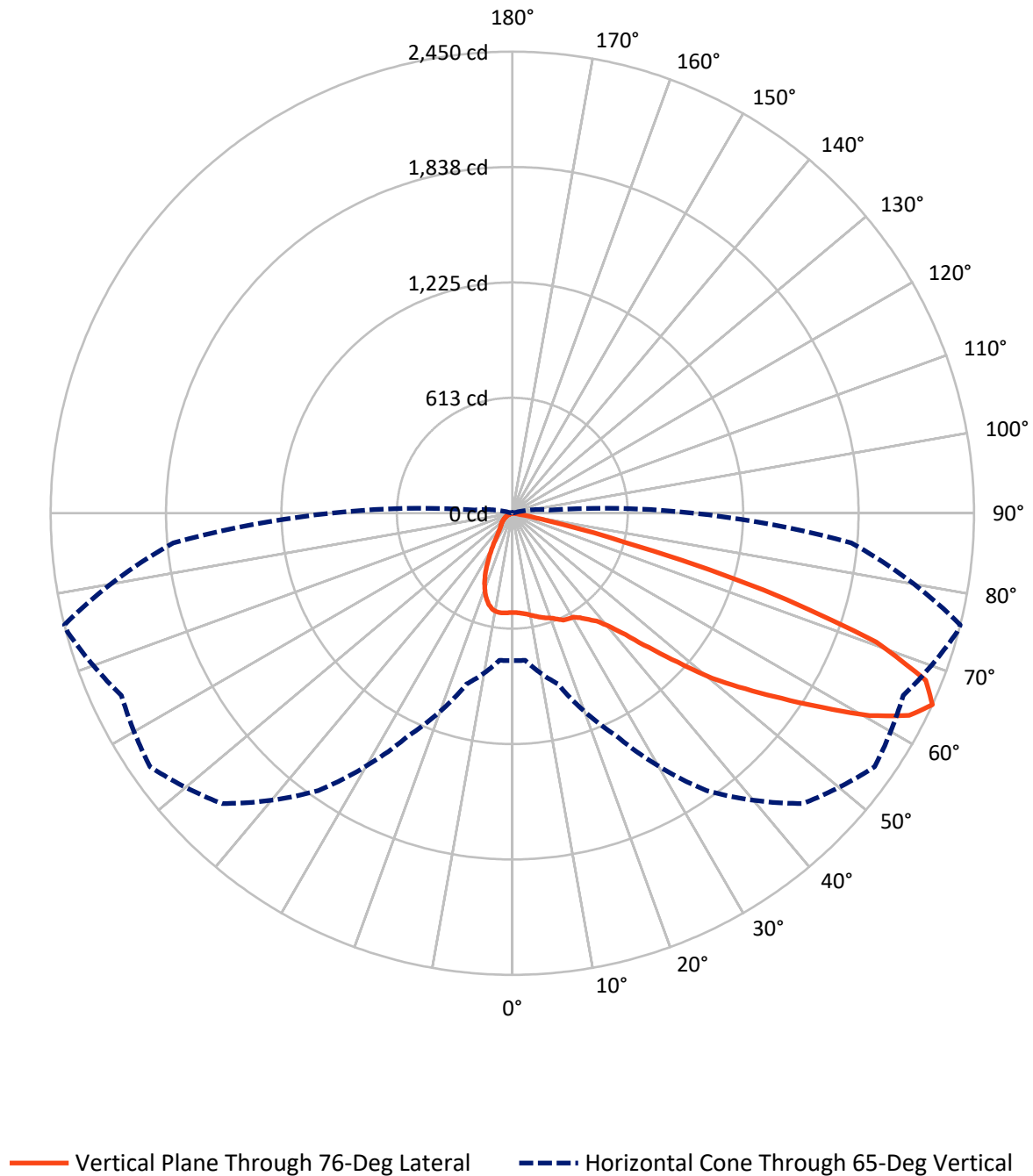


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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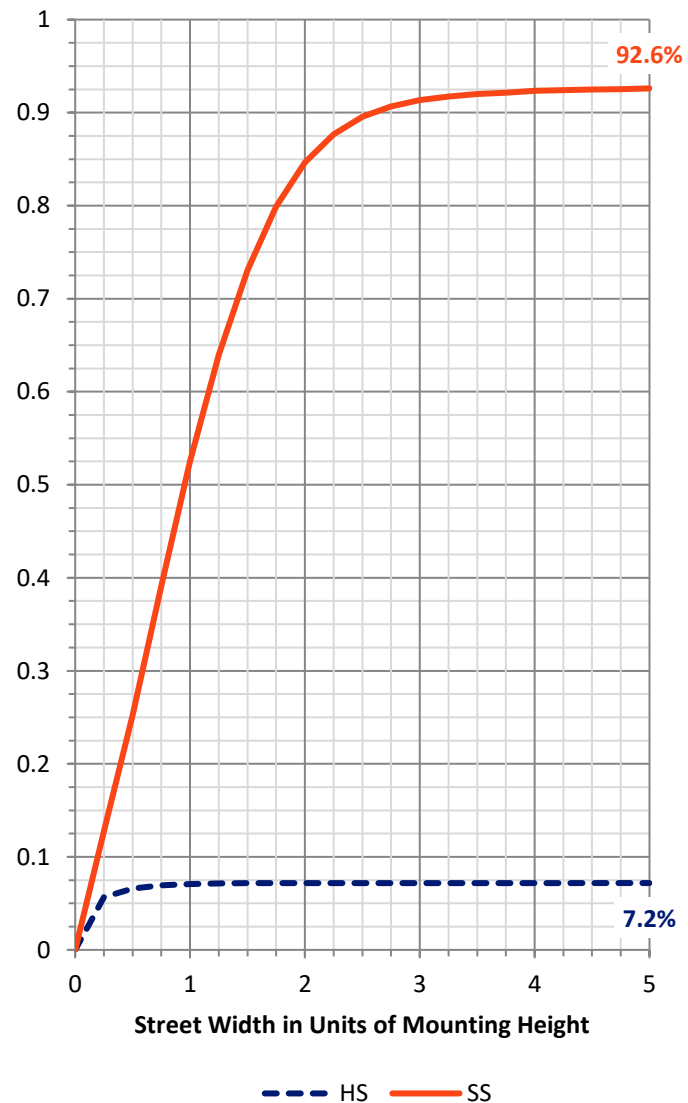
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	207.9	0.0	207.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	2671.1	0.0	2671.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	2879.0	0.0	2879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.5
10°-20°	96.6	3.4
20°-30°	155.7	5.4
30°-40°	270.7	9.4
40°-50°	447.2	15.5
50°-60°	690.9	24.0
60°-70°	843.7	29.3
70°-80°	320.2	11.1
80°-90°	10.7	0.4
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°	2879.0	100.0
0°-180°	2879.0	100.0

Coefficient of Utilization



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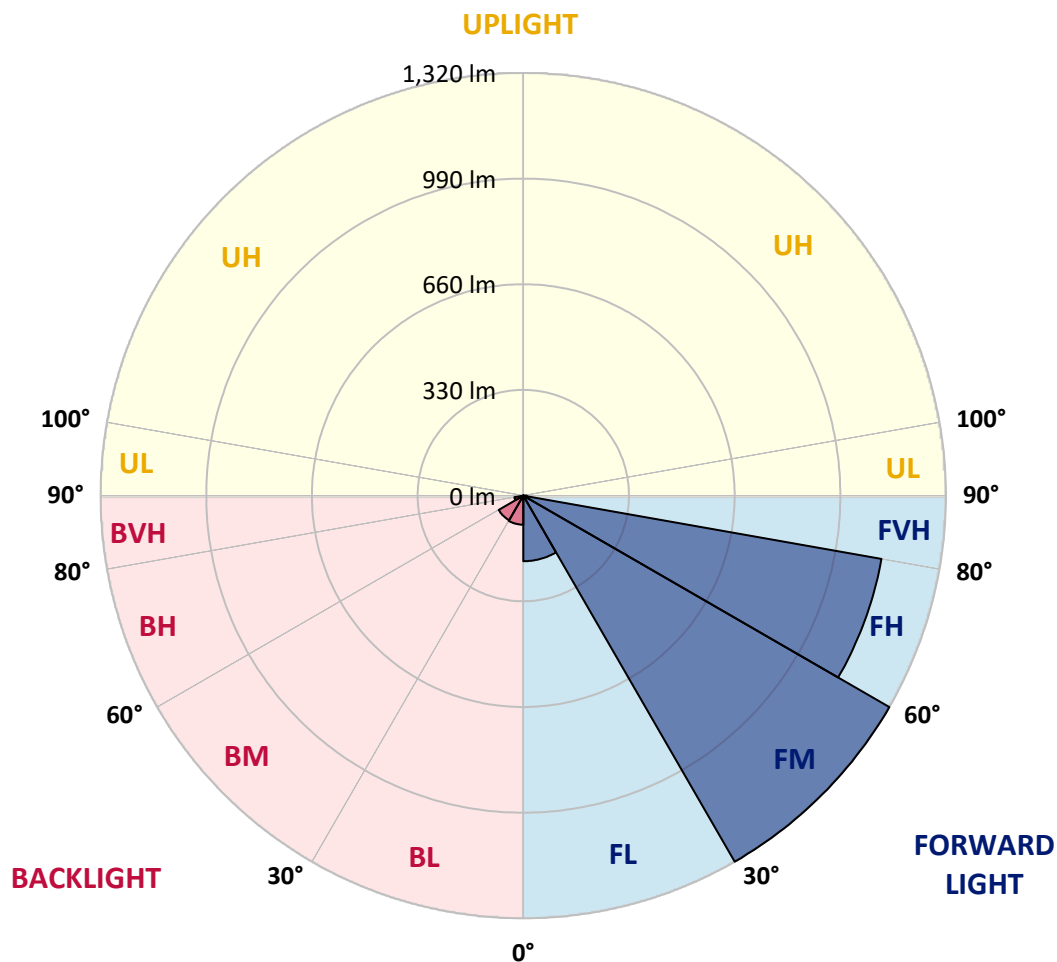
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.8	7.1			
FM	(30°-60°)	1320.1	45.9			
FH	(60°-80°)	1135.7	39.4			G1/1800
FVH	(80°-90°)	10.5	0.4			G1/100
BL	(0°-30°)	90.8	3.2	B0/110		
BM	(30°-60°)	88.7	3.1	B0/220		
BH	(60°-80°)	28.2	1.0	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	503.3	503.5	504.7	507.8	512.4	516.3	519.5	524.8	528.5	528.9	530.1
5°	468.5	466.1	468.5	476.5	483.6	494.3	507.6	520.8	532.6	533.4	539.1
7.5°	429.5	431.5	435.4	443.5	456.9	473.4	492.5	516.1	538.5	540.5	551.7
10°	389.9	394.3	400.6	413.0	431.7	453.1	479.1	512.8	547.8	550.6	570.0
12.5°	353.3	355.3	363.0	379.7	402.9	433.0	468.9	511.0	558.2	561.6	589.5
15°	325.2	327.9	334.6	349.6	375.4	414.1	460.6	510.4	568.3	573.2	609.0
17.5°	319.9	321.6	324.4	334.6	357.1	399.0	453.1	510.2	578.1	584.0	627.1
20°	341.7	340.3	337.4	336.4	348.8	387.4	447.6	511.8	587.4	594.1	646.2
22.5°	396.2	398.0	381.3	361.6	357.5	385.6	446.8	519.5	602.3	610.2	667.5
25°	511.8	497.8	471.8	424.6	389.1	396.8	455.9	537.8	619.6	628.3	686.8
27.5°	639.7	635.4	595.0	517.3	451.0	420.4	472.2	551.9	625.2	634.2	697.8
30°	765.3	770.4	724.0	638.3	541.1	464.1	487.4	557.2	630.3	639.7	711.8
32.5°	881.8	887.9	847.2	762.2	647.2	539.7	513.7	577.7	651.7	661.2	735.2
35°	973.4	974.3	943.6	875.9	763.1	631.5	570.4	613.7	680.5	691.7	760.0
37.5°	1057.6	1056.4	1020.4	962.1	859.6	722.8	641.7	655.1	713.5	725.0	795.8
40°	1120.0	1120.8	1109.2	1054.3	949.7	807.2	698.2	693.9	768.8	786.8	847.8
42.5°	1161.7	1169.2	1174.9	1147.0	1062.9	911.0	785.0	777.1	864.7	879.7	921.4
45°	1195.4	1208.8	1237.3	1235.9	1171.6	1038.5	904.1	887.9	1000.7	1016.7	1015.1
47.5°	1220.0	1233.6	1280.8	1309.2	1273.9	1162.1	1053.9	1039.9	1163.1	1180.6	1118.6
50°	1232.6	1248.9	1309.0	1364.1	1353.7	1281.2	1224.7	1225.5	1359.2	1376.1	1238.5
52.5°	1203.1	1224.3	1324.1	1423.3	1443.4	1395.2	1384.6	1411.5	1533.8	1548.3	1346.8
55°	1109.0	1135.6	1303.5	1473.7	1547.3	1529.8	1566.4	1607.2	1724.7	1734.1	1458.0
57.5°	1049.5	1077.7	1243.0	1516.6	1672.1	1698.9	1756.8	1786.7	1921.7	1945.5	1585.7
60°	999.3	1021.4	1193.2	1525.7	1798.9	1905.8	1962.1	1993.0	2164.8	2180.2	1726.1
62.5°	915.7	941.1	1109.0	1461.9	1862.7	2071.5	2188.2	2174.3	2352.8	2363.6	1812.3
65°	781.4	783.6	938.3	1301.5	1796.9	2179.0	2346.9	2289.0	2442.6	2450.0	1805.6
67.5°	583.2	604.7	721.8	1023.0	1517.8	2087.1	2398.3	2292.0	2385.9	2365.6	1662.3
70°	375.6	392.1	489.3	709.4	1094.4	1741.8	2227.8	2134.9	2094.0	2048.9	1360.7
72.5°	173.4	194.5	290.7	405.3	649.0	1240.7	1808.5	1734.5	1507.2	1395.8	864.9
75°	75.6	80.9	143.5	213.8	304.3	656.1	1192.4	1076.7	680.7	621.8	346.2
77.5°	46.1	49.6	75.2	114.6	119.5	250.0	642.3	469.7	210.4	185.6	93.9
80°	31.3	35.2	54.7	60.0	40.9	69.7	241.1	125.4	42.5	40.7	20.1
82.5°	15.2	19.3	40.4	33.5	17.7	22.4	70.1	26.8	12.4	11.6	7.1
85°	2.2	3.9	22.8	22.0	7.9	5.3	12.4	6.7	4.3	4.1	3.3
87.5°	0.0	0.0	7.7	3.5	0.8	0.8	1.4	1.4	1.6	1.4	1.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	530.7	531.7	527.9	522.4	516.5	510.6	502.3	494.7	490.3	492.9	486.4
5°	540.3	539.5	529.3	512.6	490.5	463.9	437.4	414.9	407.5	396.6	395.4
7.5°	553.5	551.3	529.7	491.5	441.5	391.5	342.7	310.4	291.9	276.2	276.6
10°	572.0	565.5	525.0	454.3	372.0	296.6	234.4	191.7	173.2	167.3	162.6
12.5°	591.1	578.5	512.0	404.1	289.7	202.7	142.5	116.5	105.1	101.4	101.0
15°	608.2	588.3	489.3	343.7	210.6	129.5	97.2	88.6	87.2	87.4	87.2
17.5°	625.0	596.0	457.8	279.7	143.1	92.9	83.5	81.5	82.1	82.9	82.7
20°	639.1	597.6	417.5	213.4	101.2	81.5	78.5	78.1	78.7	79.3	79.3
22.5°	654.3	598.8	369.7	147.8	82.7	75.8	74.2	74.2	75.0	75.8	76.0
25°	665.7	592.1	312.6	106.1	73.0	70.3	69.5	69.7	70.5	70.9	70.7
27.5°	667.5	573.2	252.0	81.3	66.3	63.6	62.8	63.6	62.6	63.2	62.8
30°	669.2	549.2	190.7	68.5	60.2	56.1	54.9	53.7	52.8	51.8	51.6
32.5°	674.2	521.0	139.2	61.6	54.5	50.0	47.2	43.7	41.1	40.2	40.0
35°	676.5	487.0	102.2	56.1	49.4	44.5	39.4	34.6	30.7	29.3	30.3
37.5°	685.0	454.1	79.3	52.0	44.9	38.8	32.3	26.2	22.6	21.7	22.2
40°	702.5	418.3	66.5	48.6	41.1	33.5	25.6	19.7	17.3	16.5	16.3
42.5°	730.5	382.7	59.2	45.3	37.2	28.3	20.1	15.4	13.4	12.8	12.8
45°	764.7	348.6	54.1	41.9	33.1	22.8	15.9	12.4	11.2	10.8	10.8
47.5°	809.6	318.7	49.8	38.4	28.7	18.1	12.8	10.8	10.0	10.2	10.4
50°	855.1	296.6	45.1	34.6	23.6	14.8	11.0	9.6	9.4	9.6	9.6
52.5°	889.5	283.6	38.8	29.3	18.5	12.4	9.8	8.9	8.7	8.3	8.3
55°	935.8	280.7	30.9	23.8	14.6	10.4	8.7	8.1	7.5	7.1	6.9
57.5°	995.4	284.0	23.8	18.5	11.4	8.5	7.7	6.7	5.9	5.1	5.1
60°	1032.4	276.6	18.5	14.2	8.3	6.9	5.9	4.9	3.9	3.3	3.0
62.5°	1020.6	245.7	14.6	10.6	5.9	5.1	3.9	3.3	2.2	1.6	1.4
65°	959.8	198.4	11.8	7.3	4.3	3.0	2.0	2.0	1.0	0.2	0.0
67.5°	840.1	147.0	9.4	4.9	2.4	1.4	1.0	0.6	0.0	0.0	0.0
70°	683.8	106.1	7.3	3.0	1.4	1.0	0.4	0.2	0.0	0.0	0.0
72.5°	434.2	60.8	5.7	1.8	1.0	0.4	0.0	0.0	0.0	0.0	0.0
75°	167.9	23.8	3.9	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	47.6	11.2	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.4	4.9	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)