

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: P450390

Luminaire Tested: **GALN-SA1A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669 lumens
Efficiency: N/A
Efficacy: 111.2 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

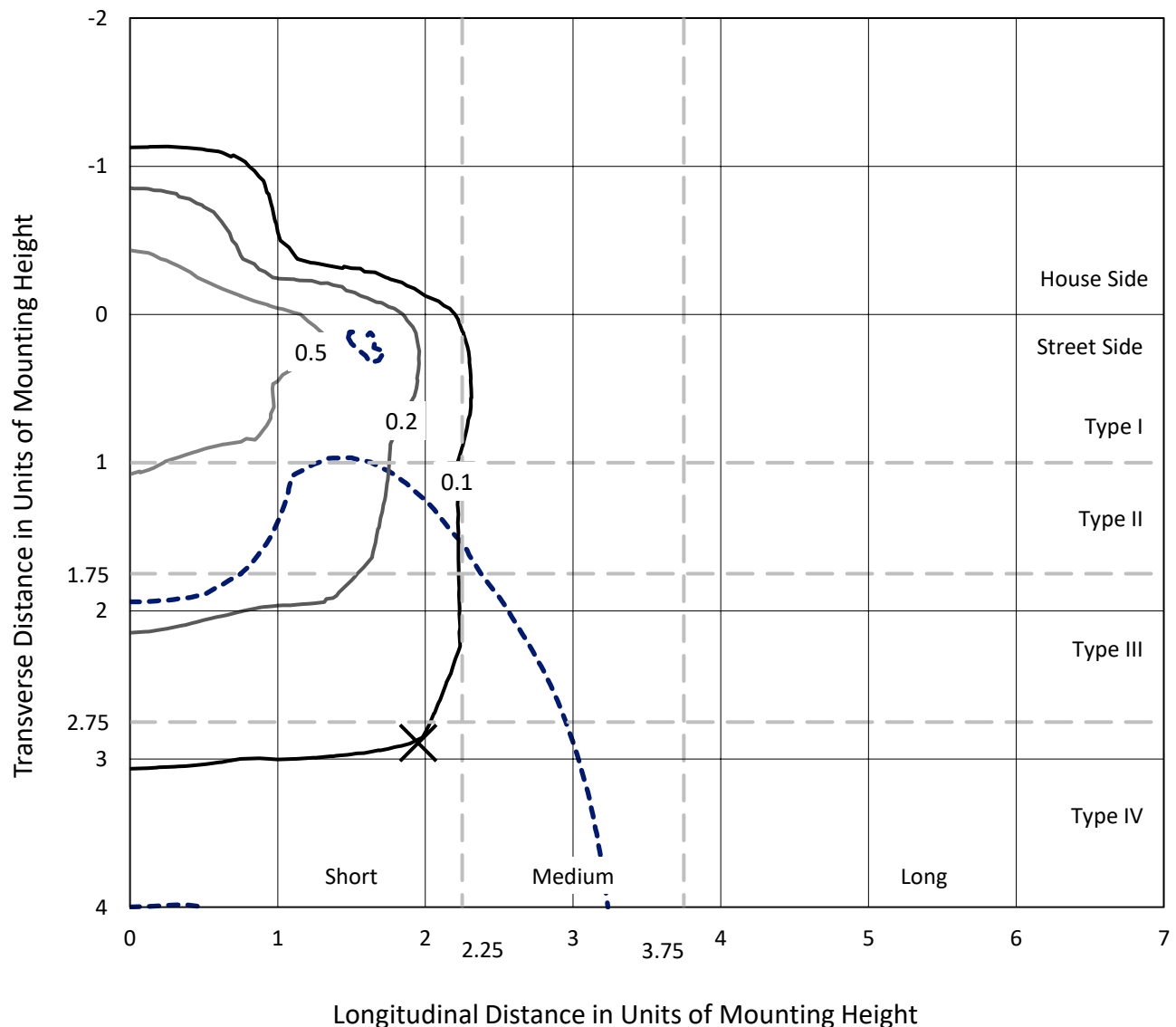


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

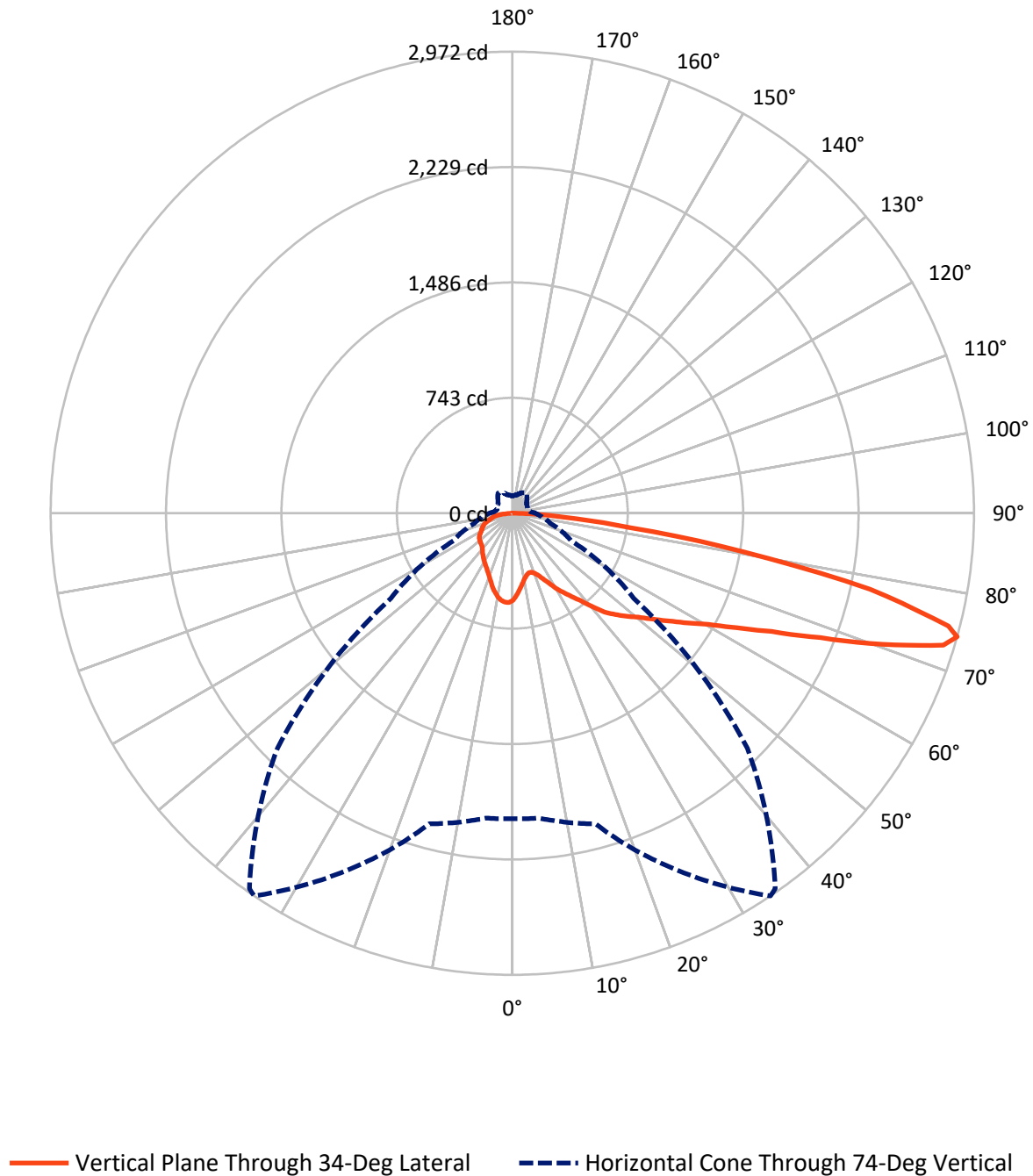


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.8	0.0	780.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	2888.2	0.0	2888.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	3669.0	0.0	3669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.4
10°-20°	139.5	3.8
20°-30°	229.9	6.3
30°-40°	344.4	9.4
40°-50°	500.7	13.6
50°-60°	699.4	19.1
60°-70°	875.6	23.9
70°-80°	724.0	19.7
80°-90°	104.6	2.9
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°	3669.0	100.0
0°-180°	3669.0	100.0

Coefficient of Utilization



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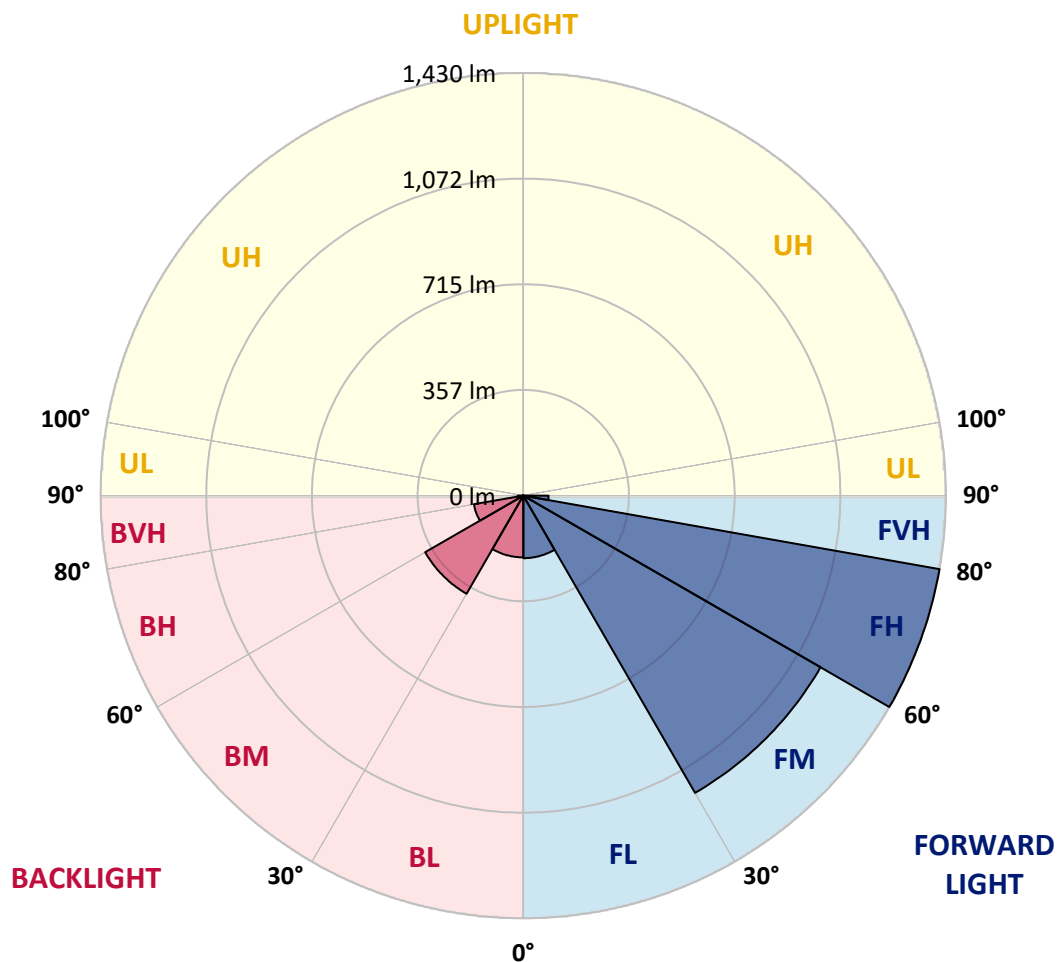
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.5	5.8			
FM	(30°-60°)	1161.0	31.6			
FH	(60°-80°)	1430.0	39.0			G1/1800
FVH	(80°-90°)	85.7	2.3			G1/100
BL	(0°-30°)	208.8	5.7	B1/500		
BM	(30°-60°)	383.4	10.5	B1/1000		
BH	(60°-80°)	169.6	4.6	B1/500		G1/500
BVH	(80°-90°)	18.9	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2
2.5°	517.7	520.3	521.8	526.8	528.1	529.7	534.0	539.7	547.0	553.5	559.2
5°	474.6	478.7	481.1	485.6	494.3	495.1	506.5	519.5	534.4	548.2	559.6
7.5°	433.8	438.2	440.3	448.4	460.0	461.8	478.5	499.0	523.8	544.7	562.2
10°	403.1	405.3	409.8	415.9	429.7	430.9	452.7	480.1	512.2	543.1	566.7
12.5°	386.4	387.6	388.6	395.1	408.8	410.6	433.3	464.4	503.1	544.3	574.0
15°	388.8	389.2	384.8	386.0	397.0	399.6	422.2	454.1	497.4	547.4	585.0
17.5°	409.4	407.9	397.0	391.3	399.0	400.2	419.9	450.0	494.7	553.1	596.4
20°	441.7	439.7	420.7	408.1	412.6	413.6	427.3	453.1	497.4	562.4	614.0
22.5°	481.9	481.1	452.5	437.2	437.0	437.0	444.1	464.0	505.3	575.2	632.5
25°	538.2	534.0	496.6	476.8	471.4	471.0	470.1	482.1	515.5	588.8	654.5
27.5°	596.0	588.6	555.3	525.0	513.2	511.8	506.5	507.7	528.5	604.3	679.5
30°	647.8	643.1	611.8	578.3	564.2	561.0	546.4	539.7	550.2	632.1	719.3
32.5°	687.4	684.6	660.2	629.7	609.0	608.4	587.0	581.5	584.2	665.9	764.9
35°	719.5	720.6	708.2	681.7	658.0	654.5	640.3	633.4	625.6	714.7	822.2
37.5°	763.4	765.7	764.9	742.1	713.0	713.8	710.6	699.2	678.7	769.1	885.8
40°	811.8	813.4	813.2	804.5	789.3	790.1	788.9	775.8	745.2	838.4	956.5
42.5°	878.7	871.0	850.8	859.6	868.5	872.4	880.7	868.3	826.3	912.4	1023.0
45°	953.5	938.9	893.3	897.4	930.5	937.8	983.8	966.7	914.3	997.4	1101.3
47.5°	1000.6	986.2	947.8	947.0	990.9	998.0	1079.3	1073.0	994.3	1089.1	1196.8
50°	1042.7	1040.7	997.4	1007.8	1050.6	1061.2	1183.4	1177.5	1074.2	1197.2	1300.9
52.5°	1105.1	1088.7	1054.1	1075.4	1132.2	1146.0	1286.6	1269.4	1147.6	1292.7	1401.9
55°	1133.2	1129.3	1127.3	1145.8	1223.6	1233.6	1387.0	1347.4	1210.2	1373.6	1478.7
57.5°	1208.2	1201.1	1221.2	1233.8	1331.4	1346.6	1491.9	1428.9	1265.1	1437.9	1516.1
60°	1305.3	1301.5	1320.0	1342.7	1451.7	1474.9	1611.4	1498.4	1309.2	1470.2	1495.6
62.5°	1450.5	1450.1	1446.6	1495.4	1622.2	1643.6	1748.6	1566.1	1316.1	1446.0	1389.5
65°	1658.6	1651.3	1621.2	1674.5	1834.4	1859.4	1891.5	1603.9	1274.4	1321.8	1170.0
67.5°	1876.3	1875.9	1851.5	1920.6	2139.1	2164.9	2070.2	1595.6	1158.8	1070.8	830.9
70°	2056.8	2048.0	2079.1	2263.3	2528.3	2558.2	2226.5	1497.4	923.0	707.1	493.7
72.5°	2100.1	2100.5	2165.1	2527.5	2902.1	2906.8	2282.8	1213.7	617.7	390.1	247.0
74°	1966.7	1970.2	2070.4	2540.7	2971.9	2950.7	2138.9	953.9	417.7	254.7	178.1
75°	1795.2	1773.4	1918.4	2452.7	2899.5	2876.7	1970.4	765.5	318.7	203.5	155.9
77.5°	959.8	981.9	1205.5	1830.4	2355.6	2329.4	1336.0	367.1	172.2	141.7	112.2
80°	341.7	376.8	529.7	957.8	1510.2	1518.3	637.6	168.3	121.1	104.5	79.3
82.5°	139.4	143.3	227.4	425.0	766.9	774.2	260.4	100.0	86.6	72.0	47.4
85°	54.5	56.1	100.6	191.1	327.2	348.6	90.0	52.8	53.3	41.3	24.2
87.5°	18.3	20.7	41.3	63.6	111.2	108.9	26.2	15.7	19.1	17.9	7.5
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°	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2
2.5°	562.0	565.9	568.5	571.4	574.0	574.8	574.2	576.0	576.2	576.4	576.6
5°	565.3	570.5	575.6	578.5	579.7	578.7	575.2	573.4	571.8	570.5	571.0
7.5°	569.7	577.3	581.9	583.2	579.9	575.2	566.7	560.0	555.7	552.9	552.7
10°	576.6	584.0	587.8	584.4	575.4	564.0	550.6	538.0	528.5	525.6	525.4
12.5°	585.4	593.7	593.5	583.4	567.7	547.4	525.6	511.0	498.0	491.5	494.1
15°	596.8	603.1	597.2	578.9	554.1	526.2	499.4	479.5	464.9	457.9	458.4
17.5°	610.0	615.5	599.8	571.0	535.0	499.2	468.1	449.2	437.6	432.5	432.1
20°	626.4	628.1	599.8	557.1	510.4	467.7	438.0	424.8	418.3	415.7	416.5
22.5°	644.1	640.9	596.6	537.6	478.1	434.8	414.9	409.0	405.7	405.3	405.7
25°	664.0	654.9	589.9	511.2	444.3	406.3	394.7	395.7	396.4	396.4	397.8
27.5°	688.4	670.1	578.7	477.9	404.9	379.9	376.6	383.8	387.0	387.6	388.6
30°	720.6	686.8	560.2	436.2	371.4	356.1	361.8	371.4	375.0	377.3	376.8
32.5°	758.8	705.1	535.2	394.5	344.3	339.4	346.4	356.1	360.2	361.4	359.8
35°	803.7	725.8	502.3	355.5	320.7	323.6	331.7	334.8	338.4	338.4	339.2
37.5°	852.1	742.5	462.0	319.7	302.5	312.8	318.7	315.9	314.2	312.2	313.2
40°	901.3	754.9	409.8	284.4	284.2	301.6	303.3	295.1	288.6	286.6	285.6
42.5°	944.1	762.6	362.6	256.9	266.9	290.7	291.9	278.9	268.5	262.4	260.4
45°	994.8	771.6	316.5	234.2	250.8	281.9	285.0	267.5	252.2	239.4	236.2
47.5°	1064.1	791.9	280.1	216.5	239.2	276.4	280.7	258.1	238.0	221.3	218.7
50°	1142.3	819.7	251.8	204.5	230.3	271.6	276.8	248.6	224.8	206.3	204.3
52.5°	1214.1	834.8	227.4	193.7	221.6	262.6	271.8	241.7	211.8	191.3	189.4
55°	1253.3	810.4	203.5	183.1	209.6	251.0	264.6	232.1	199.2	183.3	180.7
57.5°	1258.6	760.0	181.7	171.8	197.0	236.8	251.4	220.5	191.1	177.9	175.6
60°	1217.7	684.8	164.8	162.4	184.2	220.7	236.6	210.4	182.7	171.8	169.5
62.5°	1116.1	603.1	153.1	153.9	171.1	203.9	225.6	200.6	174.8	165.0	163.0
65°	941.3	497.8	141.7	145.1	159.6	190.7	215.7	192.5	166.9	160.0	158.1
67.5°	653.9	359.4	132.3	136.0	148.6	177.2	204.1	183.7	157.9	154.3	151.4
70°	362.0	221.1	121.3	125.6	137.2	162.2	191.1	170.5	144.9	143.3	139.2
72.5°	190.3	140.9	108.9	113.6	121.8	142.9	171.1	156.1	132.1	125.2	119.9
74°	148.6	115.5	100.6	105.5	111.0	131.5	159.4	145.7	123.0	114.8	110.8
75°	129.5	102.8	93.5	99.8	104.7	123.8	150.2	138.4	117.9	110.2	106.5
77.5°	91.5	77.0	76.4	83.9	86.6	108.5	135.4	126.0	105.1	97.0	93.5
80°	64.2	57.7	60.6	65.2	68.9	95.9	125.6	108.9	86.2	76.6	75.4
82.5°	41.9	37.8	43.3	47.6	48.8	70.7	101.4	82.7	62.8	51.0	47.4
85°	19.3	18.9	24.8	24.2	24.0	34.6	60.2	48.4	36.2	27.0	25.4
87.5°	4.9	4.7	6.1	5.1	6.1	5.3	5.5	1.4	0.2	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)