

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: P450477

Luminaire Tested: **GALN-SA1B-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450477
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-SA1B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5232 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

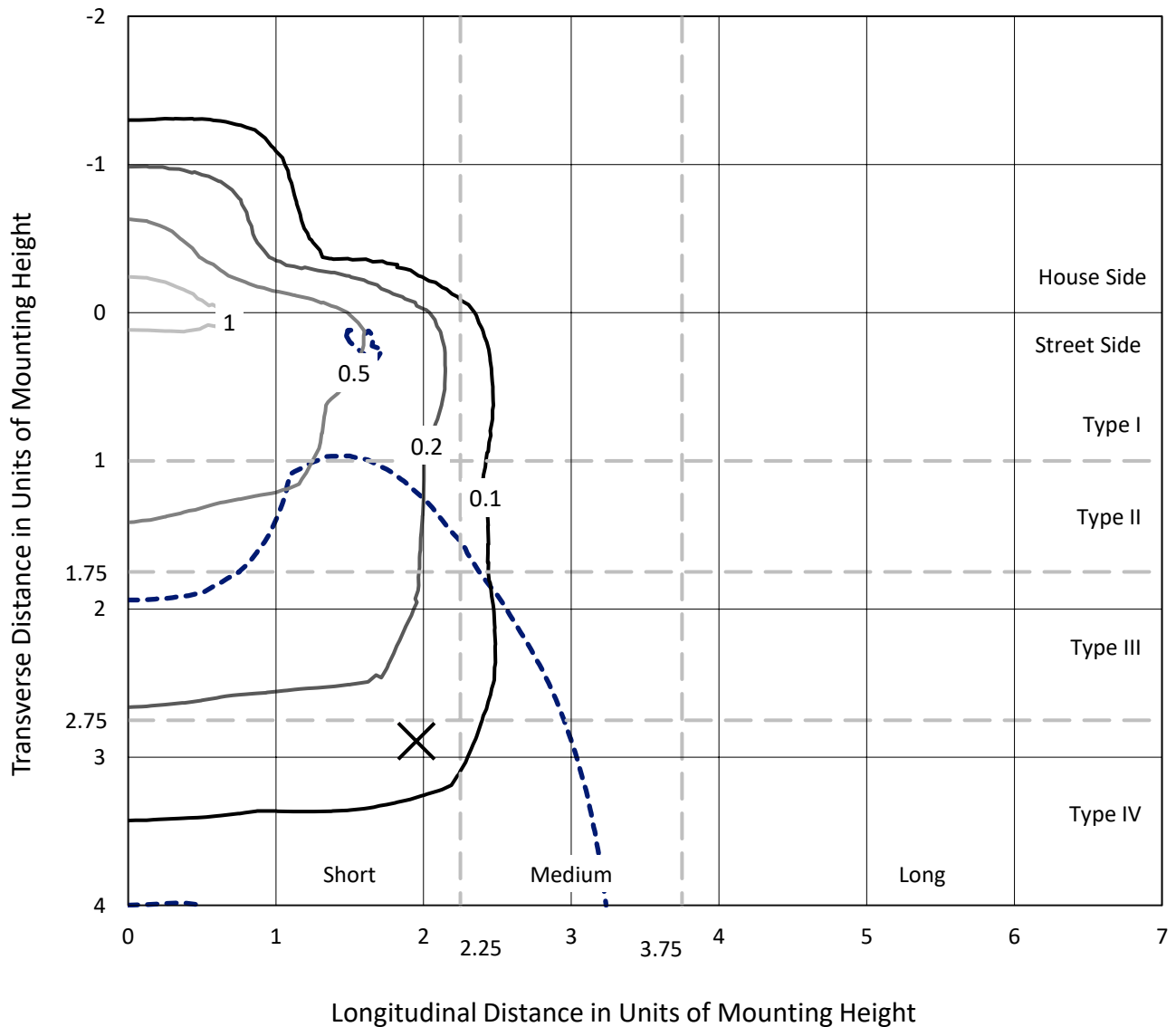
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

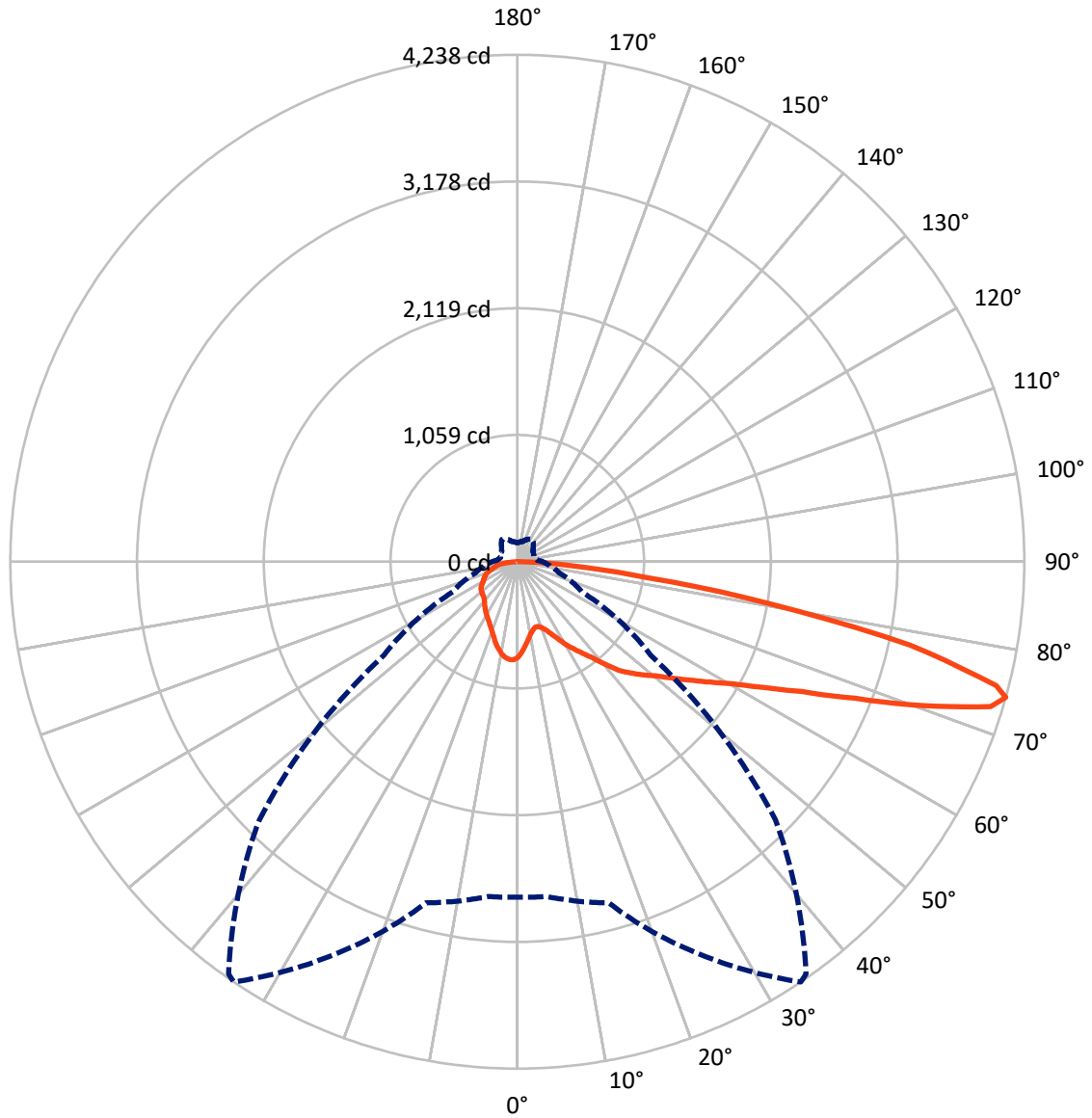
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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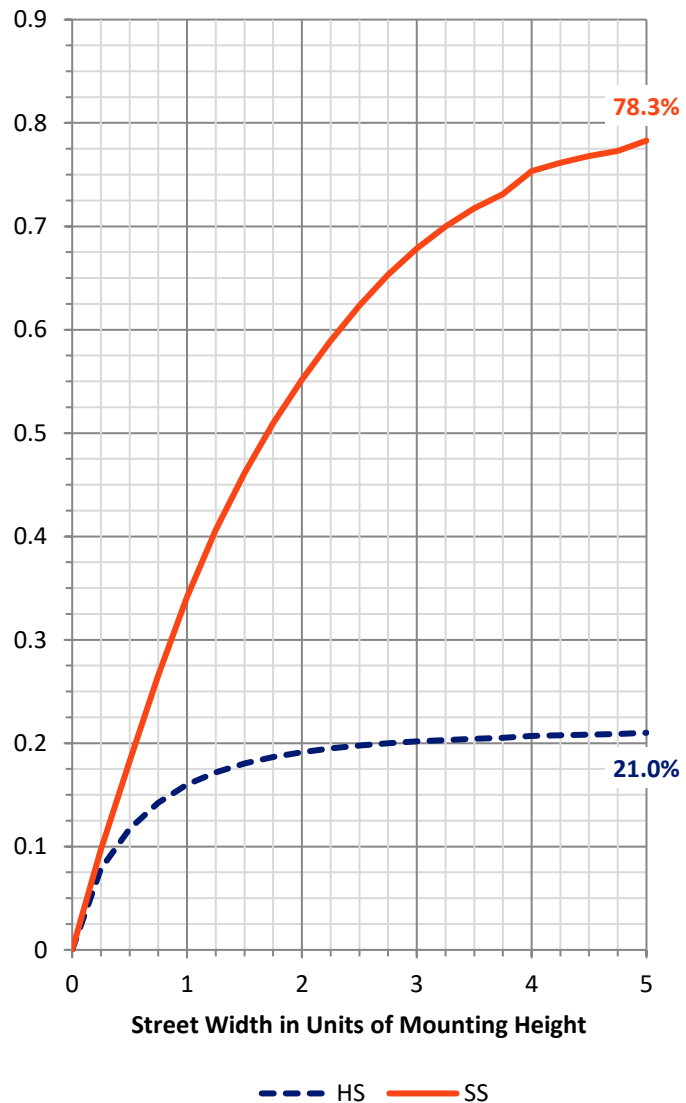
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1113.4	0.0	1113.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4118.6	0.0	4118.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	5232.0	0.0	5232.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	1.4
10°-20°	198.9	3.8
20°-30°	327.9	6.3
30°-40°	491.1	9.4
40°-50°	714.0	13.6
50°-60°	997.3	19.1
60°-70°	1248.5	23.9
70°-80°	1032.4	19.7
80°-90°	149.2	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°	5232.0	100.0
0°-180°	5232.0	100.0



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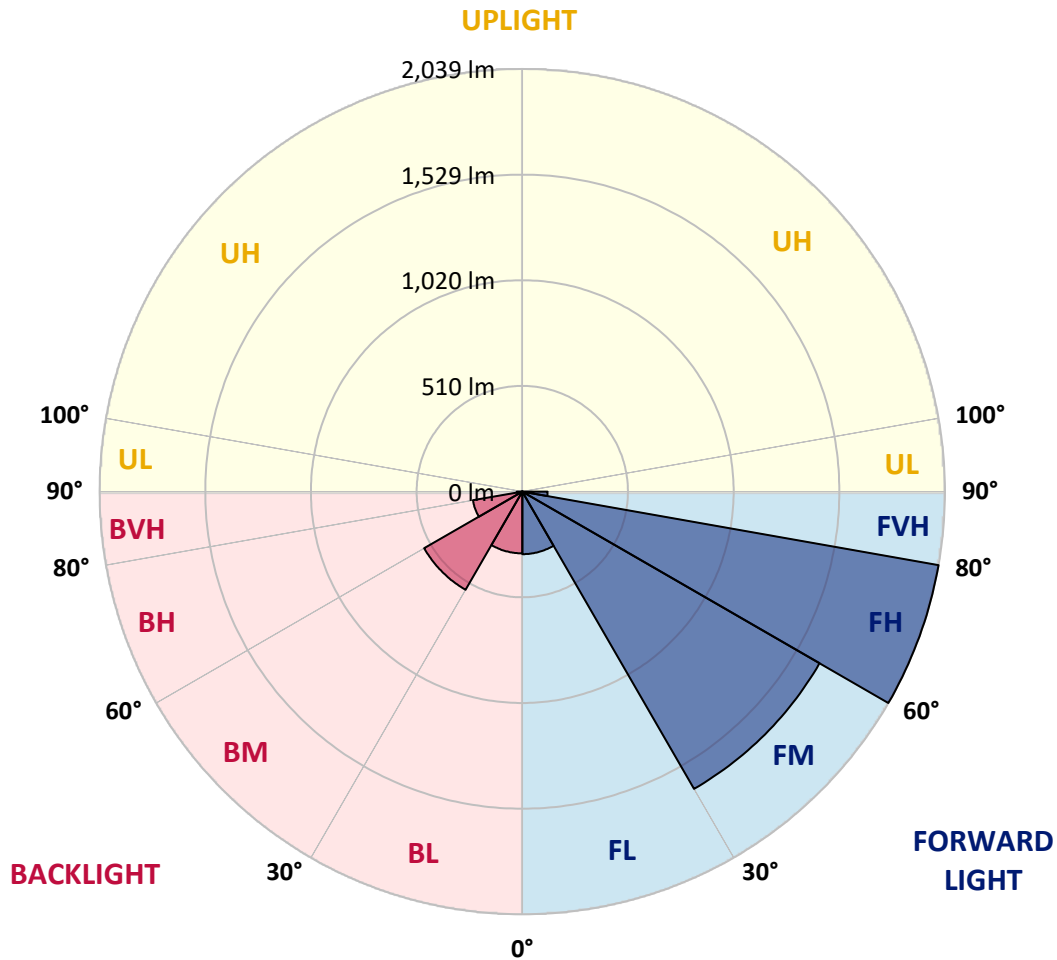
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.6	5.8			
FM (30°-60°)	1655.6	31.6			
FH (60°-80°)	2039.2	39.0			G2/5000
FVH (80°-90°)	122.2	2.3			G2/225
BL (0°-30°)	297.8	5.7	B1/500		
BM (30°-60°)	546.8	10.5	B1/1000		
BH (60°-80°)	241.8	4.6	B1/500		G1/500
BVH (80°-90°)	27.0	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8
2.5°	738.2	742.0	744.0	751.3	753.0	755.3	761.4	769.5	780.0	789.3	797.4
5°	676.8	682.6	686.1	692.4	704.9	706.1	722.3	740.9	762.0	781.7	798.0
7.5°	618.5	624.9	627.8	639.4	655.9	658.5	682.3	711.6	746.9	776.8	801.7
10°	574.8	578.0	584.3	593.0	612.7	614.5	645.5	684.6	730.4	774.5	808.1
12.5°	551.0	552.7	554.2	563.5	582.9	585.5	618.0	662.3	717.4	776.2	818.5
15°	554.5	555.1	548.7	550.4	566.1	569.8	602.0	647.5	709.3	780.6	834.2
17.5°	583.8	581.7	566.1	558.0	569.0	570.7	598.8	641.7	705.5	788.7	850.4
20°	629.8	626.9	600.0	582.0	588.4	589.8	609.3	646.1	709.3	802.0	875.6
22.5°	687.2	686.1	645.2	623.5	623.2	633.3	661.7	720.6	820.3	902.0	902.0
25°	767.5	761.4	708.1	680.0	672.2	671.6	670.4	687.5	735.1	839.7	933.3
27.5°	849.8	839.4	791.9	748.7	731.9	729.8	722.3	724.0	753.6	861.7	969.0
30°	923.7	917.1	872.4	824.6	804.6	800.0	779.1	769.5	784.6	901.4	1025.8
32.5°	980.3	976.2	941.4	898.0	868.4	867.5	837.1	829.3	833.0	949.5	1090.7
35°	1026.1	1027.5	1009.8	972.2	938.2	933.3	913.0	903.2	892.2	1019.1	1172.4
37.5°	1088.7	1091.9	1090.7	1058.2	1016.8	1017.9	1013.3	997.1	967.8	1096.8	1263.2
40°	1157.7	1160.0	1159.7	1147.2	1125.5	1126.6	1124.9	1106.4	1062.6	1195.6	1364.0
42.5°	1253.0	1242.0	1213.3	1225.8	1238.5	1244.0	1255.9	1238.2	1178.2	1301.1	1458.8
45°	1359.7	1338.8	1273.9	1279.7	1326.9	1337.4	1402.9	1378.5	1303.7	1422.3	1570.4
47.5°	1426.9	1406.3	1351.6	1350.4	1413.0	1423.2	1539.1	1530.1	1417.9	1553.0	1706.6
50°	1486.9	1484.0	1422.3	1437.1	1498.2	1513.3	1687.5	1679.1	1531.9	1707.2	1855.0
52.5°	1575.9	1552.4	1503.2	1533.6	1614.5	1634.2	1834.7	1810.1	1636.5	1843.4	1999.1
55°	1615.9	1610.4	1607.5	1633.9	1744.9	1759.1	1977.9	1921.4	1725.8	1958.8	2108.6
57.5°	1722.9	1712.7	1741.4	1759.4	1898.5	1920.2	2127.5	2037.6	1804.0	2050.4	2162.0
60°	1861.4	1855.9	1882.3	1914.7	2070.1	2103.1	2297.9	2136.8	1866.9	2096.5	2132.7
62.5°	2068.4	2067.8	2062.9	2132.4	2313.3	2343.7	2493.6	2233.3	1876.8	2062.0	1981.4
65°	2365.2	2354.7	2311.8	2387.8	2615.9	2651.5	2697.3	2287.2	1817.4	1884.9	1668.4
67.5°	2675.6	2675.0	2640.2	2738.8	3050.4	3087.2	2952.1	2275.3	1652.4	1526.9	1184.9
70°	2933.0	2920.5	2964.9	3227.5	3605.4	3648.0	3175.0	2135.3	1316.2	1008.4	704.0
72.5°	2994.7	2995.3	3087.5	3604.3	4138.5	4145.1	3255.3	1730.7	880.9	556.2	352.2
74°	2804.6	2809.5	2952.4	3623.1	4237.9	4207.7	3050.1	1360.3	595.6	363.2	253.9
75°	2559.9	2528.9	2735.6	3497.6	4134.7	4102.2	2809.8	1091.6	454.5	290.1	222.3
77.5°	1368.7	1400.3	1719.1	2610.1	3359.1	3321.7	1905.2	523.5	245.5	202.0	160.0
80°	487.2	537.4	755.3	1365.8	2153.6	2165.2	909.3	240.0	172.7	149.0	113.0
82.5°	198.8	204.3	324.3	606.1	1093.6	1104.0	371.3	142.6	123.5	102.6	67.5
85°	77.7	80.0	143.5	272.5	466.7	497.1	128.4	75.4	75.9	58.8	34.5
87.5°	26.1	29.6	58.8	90.7	158.5	155.4	37.4	22.3	27.2	25.5	10.7
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°	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8	798.8
2.5°	801.4	806.9	810.7	814.8	818.5	819.7	818.8	821.4	821.7	822.0	822.3
5°	806.1	813.6	820.9	824.9	826.6	825.2	820.3	817.7	815.3	813.6	814.2
7.5°	812.4	823.2	829.8	831.6	826.9	820.3	808.1	798.5	792.4	788.4	788.1
10°	822.3	832.7	838.2	833.3	820.6	804.3	785.2	767.2	753.6	749.5	749.3
12.5°	834.8	846.6	846.4	831.9	809.5	780.6	749.5	728.7	710.1	700.9	704.6
15°	851.0	860.0	851.6	825.5	790.1	750.4	712.2	683.8	662.9	653.0	653.6
17.5°	869.8	877.7	855.3	814.2	762.9	711.9	667.5	640.6	624.0	616.8	616.2
20°	893.3	895.6	855.3	794.5	727.8	666.9	624.6	605.8	596.5	592.7	593.9
22.5°	918.5	913.9	850.7	766.6	681.7	620.0	591.6	583.2	578.5	578.0	578.5
25°	946.9	933.9	841.1	729.0	633.6	579.4	562.9	564.3	565.2	565.2	567.2
27.5°	981.7	955.6	825.2	681.4	577.4	541.7	537.1	547.2	551.9	552.7	554.2
30°	1027.5	979.4	798.8	622.0	529.6	507.8	515.9	529.6	534.8	538.0	537.4
32.5°	1082.0	1005.5	763.2	562.6	491.0	484.0	493.9	507.8	513.6	515.4	513.0
35°	1146.1	1035.0	716.2	506.9	457.4	461.4	473.0	477.4	482.6	482.6	483.8
37.5°	1215.0	1058.8	658.8	455.9	431.3	446.1	454.5	450.4	448.1	445.2	446.7
40°	1285.2	1076.5	584.3	405.5	405.2	430.1	432.5	420.9	411.6	408.7	407.2
42.5°	1346.3	1087.5	517.1	366.4	380.6	414.5	416.2	397.7	382.9	374.2	371.3
45°	1418.5	1100.3	451.3	333.9	357.7	402.0	406.4	381.4	359.7	341.4	336.8
47.5°	1517.4	1129.3	399.4	308.7	341.2	394.2	400.3	368.1	339.4	315.6	311.9
50°	1628.9	1169.0	359.1	291.6	328.4	387.2	394.8	354.5	320.6	294.2	291.3
52.5°	1731.3	1190.4	324.3	276.2	315.9	374.5	387.5	344.6	302.0	272.7	270.1
55°	1787.2	1155.6	290.1	261.2	298.8	358.0	377.4	331.0	284.1	261.4	257.7
57.5°	1794.7	1083.7	259.1	244.9	280.9	337.7	358.5	314.5	272.5	253.6	250.4
60°	1736.5	976.5	235.1	231.6	262.6	314.8	337.4	300.0	260.6	244.9	241.7
62.5°	1591.6	860.0	218.3	219.4	244.1	290.7	321.7	286.1	249.3	235.4	232.5
65°	1342.3	709.8	202.0	207.0	227.5	271.9	307.5	274.5	238.0	228.1	225.5
67.5°	932.4	512.5	188.7	193.9	211.9	252.7	291.0	262.0	225.2	220.0	215.9
70°	516.2	315.4	173.0	179.1	195.6	231.3	272.5	243.2	206.7	204.3	198.5
72.5°	271.3	200.9	155.4	162.0	173.6	203.8	244.1	222.6	188.4	178.5	171.0
74°	211.9	164.6	143.5	150.4	158.3	187.5	227.2	207.8	175.4	163.8	158.0
75°	184.6	146.7	133.3	142.3	149.3	176.5	214.2	197.4	168.1	157.1	151.9
77.5°	130.4	109.9	109.0	119.7	123.5	154.8	193.0	179.7	149.9	138.3	133.3
80°	91.6	82.3	86.4	93.0	98.3	136.8	179.1	155.4	122.9	109.3	107.5
82.5°	59.7	53.9	61.7	67.8	69.6	100.9	144.6	118.0	89.6	72.8	67.5
85°	27.5	27.0	35.4	34.5	34.2	49.3	85.8	69.0	51.6	38.5	36.2
87.5°	7.0	6.7	8.7	7.2	8.7	7.5	7.8	2.0	0.3	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)