

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: P450502

Luminaire Tested: **GALN-SA1B-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5710 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

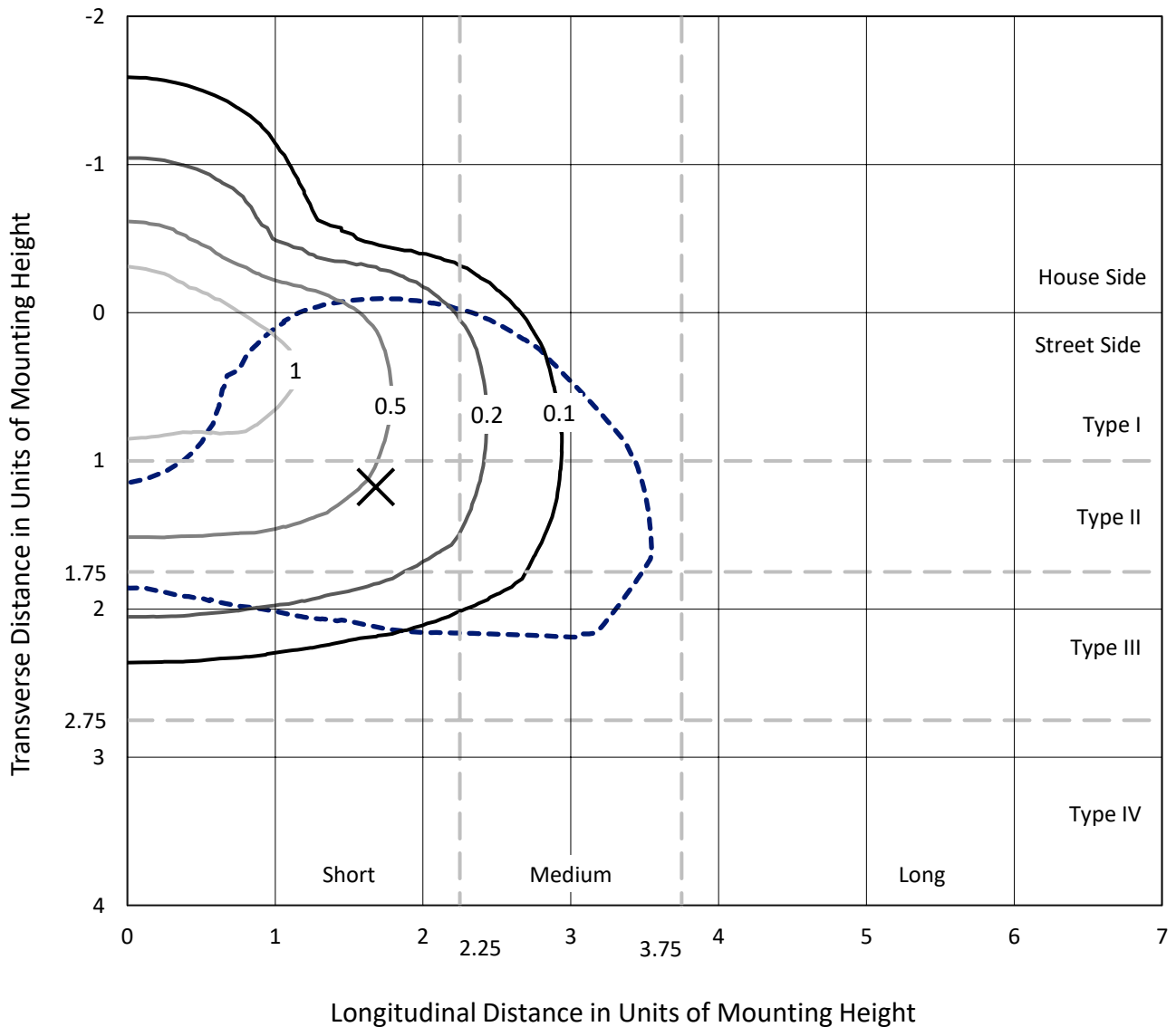
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

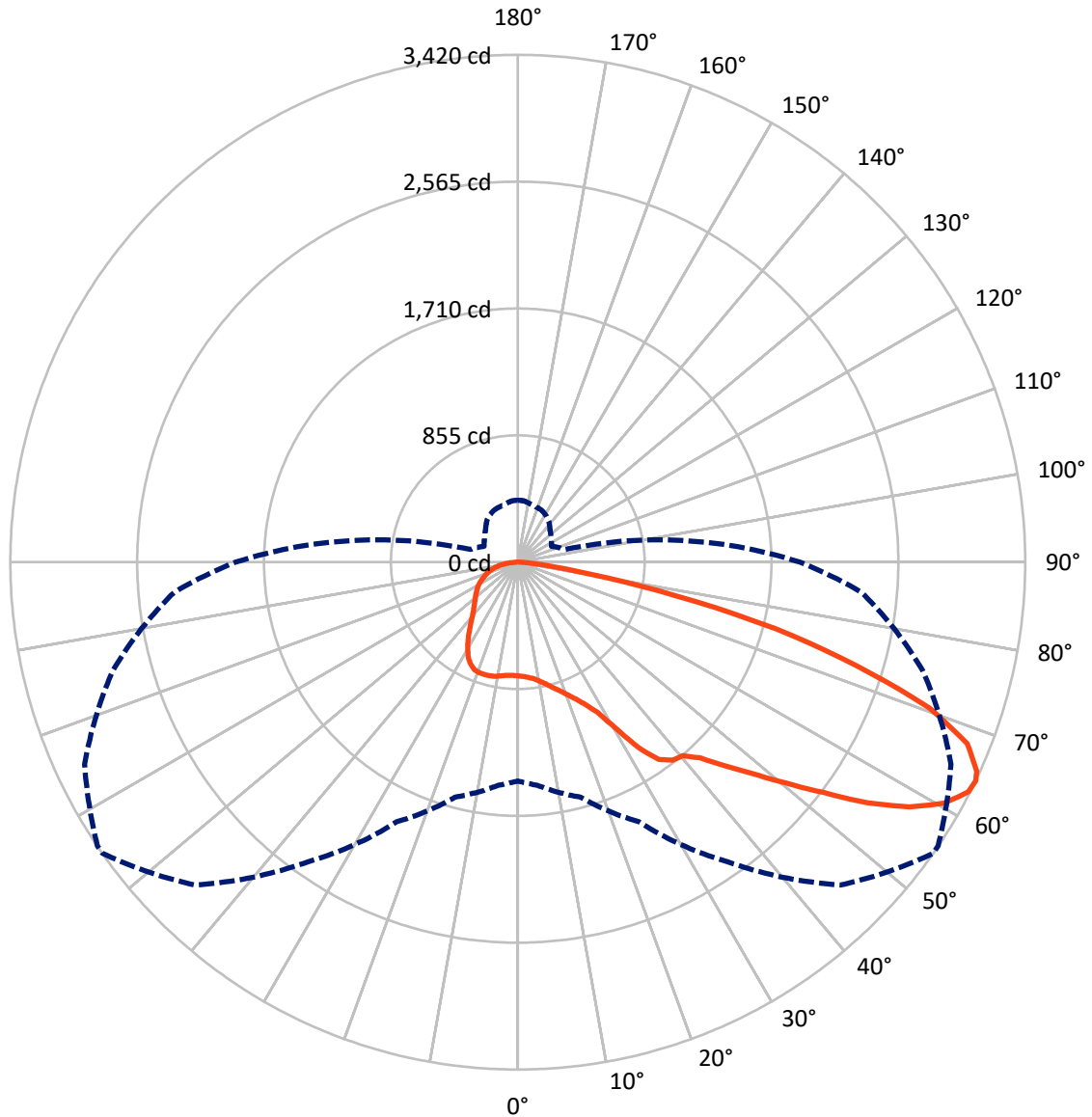
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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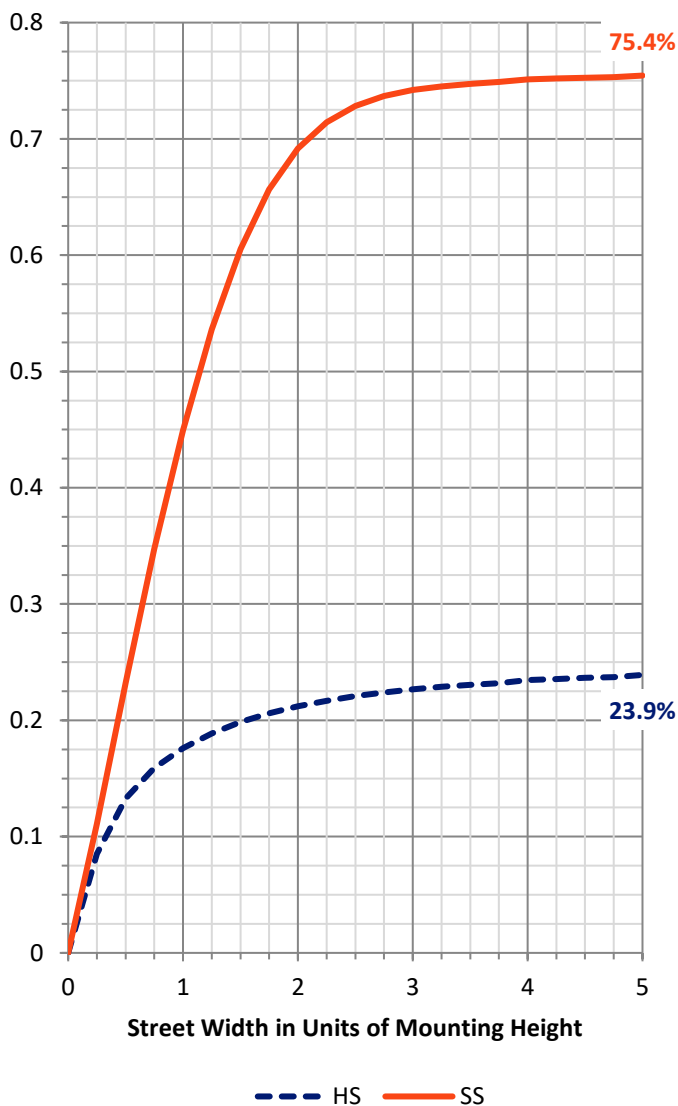
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.1	0.0	1387.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	4322.9	0.0	4322.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	5710.0	0.0	5710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.3
10°-20°	235.1	4.1
20°-30°	418.6	7.3
30°-40°	644.1	11.3
40°-50°	913.0	16.0
50°-60°	1321.6	23.1
60°-70°	1367.7	24.0
70°-80°	640.5	11.2
80°-90°	94.8	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°	5710.0	100.0
0°-180°	5710.0	100.0

Coefficient of Utilization



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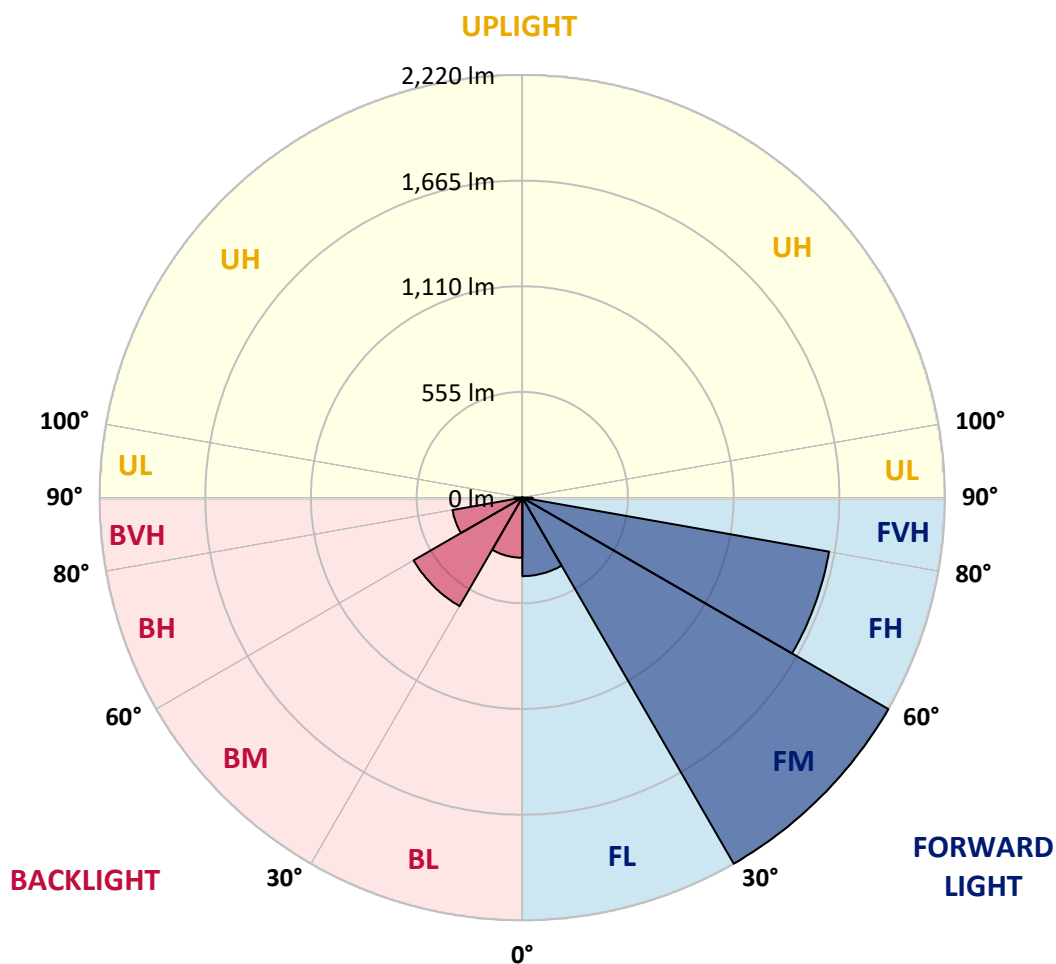
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.4	7.2			
FM	(30°-60°)	2220.2	38.9			
FH	(60°-80°)	1636.1	28.7			G1/1800
FVH	(80°-90°)	54.3	1.0			G1/100
BL	(0°-30°)	315.9	5.5	B1/500		
BM	(30°-60°)	658.5	11.5	B1/1000		
BH	(60°-80°)	372.1	6.5	B1/500		G1/500
BVH	(80°-90°)	40.5	0.7			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°	56°	65°	75°	85°
0°	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1
2.5°	774.7	774.4	775.3	774.4	775.0	772.8	771.8	772.5	771.5	769.9	767.1
5°	784.3	783.9	784.3	783.0	783.6	782.3	780.1	780.8	779.2	775.7	771.5
7.5°	800.5	799.2	799.2	798.9	797.6	795.7	794.1	793.5	791.9	787.4	781.1
10°	821.5	821.5	821.8	819.3	820.9	817.4	815.8	815.4	810.0	804.3	795.4
12.5°	849.2	850.8	849.8	848.5	847.9	846.6	841.2	842.5	836.5	826.6	815.8
15°	883.6	886.1	884.5	883.9	882.3	877.5	875.3	874.3	866.4	852.0	837.7
17.5°	929.1	925.9	924.6	923.0	916.3	912.8	909.0	908.4	901.4	884.5	862.2
20°	968.9	973.3	970.8	969.2	962.5	955.8	952.9	952.0	945.9	927.5	891.8
22.5°	1016.3	1017.2	1018.2	1014.4	1011.2	1006.1	1001.0	999.4	997.2	978.1	934.5
25°	1066.9	1070.7	1067.5	1063.7	1059.9	1059.6	1064.3	1063.7	1062.8	1044.3	991.1
27.5°	1149.3	1152.8	1153.8	1149.6	1135.0	1136.3	1147.1	1150.6	1165.2	1134.7	1064.0
30°	1195.8	1199.3	1207.3	1222.8	1246.1	1266.5	1292.6	1300.5	1314.5	1256.9	1150.6
32.5°	1224.4	1225.7	1240.0	1269.0	1338.7	1414.8	1485.7	1488.6	1497.5	1416.7	1229.8
35°	1269.6	1270.6	1282.0	1313.9	1395.7	1522.4	1632.2	1635.7	1628.3	1466.3	1266.8
37.5°	1325.3	1327.9	1335.2	1361.6	1459.3	1612.4	1693.0	1690.4	1625.5	1505.8	1332.0
40°	1406.5	1406.5	1397.9	1433.6	1526.5	1664.0	1714.3	1709.8	1692.6	1620.1	1431.3
42.5°	1478.1	1476.8	1497.2	1521.4	1610.5	1743.6	1803.7	1811.0	1839.4	1763.6	1544.3
45°	1571.4	1577.1	1588.6	1632.5	1753.4	1879.5	1957.1	1964.1	2004.2	1932.6	1676.4
47.5°	1665.6	1667.5	1703.5	1762.0	1930.4	2063.8	2127.4	2138.9	2175.5	2130.3	1818.7
50°	1732.4	1750.6	1808.2	1900.5	2112.8	2288.5	2338.1	2351.8	2416.4	2345.4	1984.5
52.5°	1803.1	1820.9	1891.2	2031.9	2322.2	2518.3	2579.4	2588.6	2655.8	2563.1	2154.1
55°	1863.6	1880.1	1960.0	2148.4	2489.0	2752.8	2863.6	2852.8	2884.9	2730.9	2285.0
57.5°	1873.4	1886.8	1987.4	2222.9	2614.4	2954.0	3112.8	3119.2	3081.9	2856.3	2392.9
60°	1797.0	1824.4	1939.9	2214.9	2670.7	3094.0	3298.7	3303.2	3197.5	2920.6	2435.8
62.5°	1661.8	1658.9	1798.6	2087.0	2591.8	3125.9	3408.2	3403.4	3242.7	2889.7	2394.1
64°	1474.9	1509.3	1639.8	1929.8	2464.5	3076.9	3419.6	3417.1	3221.0	2825.4	2323.2
65°	1361.0	1359.1	1488.0	1801.2	2337.8	3003.0	3399.3	3395.8	3175.8	2767.8	2268.1
67.5°	982.5	987.0	1114.3	1389.9	1900.5	2714.3	3266.5	3253.5	2997.6	2576.8	2058.7
70°	595.2	597.7	697.7	922.1	1364.2	2194.3	2944.4	2945.1	2724.8	2291.6	1752.2
72.5°	313.5	320.2	360.3	523.6	828.5	1539.5	2388.7	2445.4	2339.4	1955.9	1384.2
75°	174.4	175.4	203.7	258.1	422.7	861.6	1795.4	1811.7	1852.1	1574.2	1023.6
77.5°	133.0	135.0	143.9	166.8	230.1	399.4	1086.6	1168.1	1305.3	1109.9	584.1
80°	107.9	109.8	117.4	131.1	153.1	189.4	504.8	548.7	698.6	492.7	227.9
82.5°	84.0	82.8	92.6	101.5	111.4	112.0	207.2	229.2	284.5	212.0	98.7
85°	62.4	62.4	70.3	68.4	71.9	65.6	91.3	100.9	113.9	90.1	45.8
87.5°	24.8	27.4	46.2	41.4	32.1	25.8	33.7	35.6	39.5	35.3	19.1
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°	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1
2.5°	767.4	768.3	766.1	764.5	763.9	762.9	762.0	762.3	763.6	764.8	764.5
5°	771.2	771.5	767.7	765.8	764.5	763.2	763.2	764.2	766.7	768.7	768.7
7.5°	780.8	780.8	775.3	771.8	769.9	767.7	767.1	767.4	769.3	771.8	772.2
10°	795.7	794.4	787.4	782.0	778.5	773.1	768.3	765.8	766.7	768.3	768.3
12.5°	813.9	810.4	801.4	794.1	785.5	775.3	765.5	760.4	760.1	761.7	761.0
15°	833.3	829.4	817.0	803.7	788.7	773.7	762.0	754.7	748.9	747.3	750.8
17.5°	855.9	847.9	830.7	812.3	790.0	770.6	752.1	737.1	727.0	724.1	725.1
20°	883.2	872.7	849.5	820.5	789.0	759.1	730.5	710.4	693.9	688.8	689.4
22.5°	921.1	903.0	868.9	824.7	781.1	737.5	697.7	671.6	651.5	643.6	648.3
25°	964.1	944.3	887.4	823.7	760.4	702.8	658.8	624.8	606.6	594.9	597.4
27.5°	1023.3	988.3	907.1	815.1	730.8	660.4	609.5	577.4	560.8	554.8	557.6
30°	1099.0	1045.2	928.4	791.9	684.0	607.0	559.9	538.9	529.0	521.3	523.9
32.5°	1153.8	1085.3	933.2	752.7	633.4	558.3	526.1	510.5	499.7	492.4	494.0
35°	1192.9	1119.4	931.0	704.7	580.6	518.2	499.4	486.7	469.2	453.2	450.4
37.5°	1245.4	1162.1	914.7	652.2	528.4	491.1	477.7	454.2	429.0	407.7	406.8
40°	1326.0	1212.0	880.1	590.4	483.8	471.1	454.8	424.3	397.2	380.0	378.8
42.5°	1409.0	1258.2	832.9	525.5	447.2	450.1	430.3	400.1	383.5	372.4	371.1
45°	1510.6	1308.1	782.0	469.2	420.1	430.3	409.0	391.5	381.6	374.3	372.4
47.5°	1620.4	1359.4	724.7	418.5	397.2	412.2	400.1	392.1	386.7	381.6	379.4
50°	1738.8	1416.7	670.9	377.8	376.5	393.4	399.1	396.3	393.1	391.5	389.6
52.5°	1868.6	1475.2	625.7	349.2	358.4	380.0	399.4	401.7	401.7	400.7	399.4
55°	1956.5	1516.0	579.9	325.9	339.9	369.2	398.8	407.4	410.6	409.3	408.0
57.5°	2021.4	1538.3	522.3	305.9	324.3	358.7	395.3	408.0	411.2	412.8	412.2
60°	2034.8	1517.6	446.9	284.9	307.5	343.4	382.6	398.5	402.6	412.5	413.5
62.5°	1974.6	1453.9	371.8	264.2	286.8	320.2	365.4	387.7	395.9	411.2	412.8
64°	1900.8	1382.6	330.1	251.1	273.4	307.1	356.8	384.8	395.6	416.0	417.3
65°	1846.7	1330.7	304.0	242.9	264.8	298.6	352.0	385.8	398.5	423.3	425.2
67.5°	1647.4	1152.2	251.4	223.4	244.4	283.9	353.0	393.7	397.9	426.2	425.9
70°	1363.2	917.3	210.7	205.6	224.7	272.1	349.2	381.0	381.3	400.1	395.6
72.5°	1020.7	677.9	182.7	187.2	202.7	244.1	329.7	363.8	358.4	360.9	356.5
75°	701.2	448.5	157.2	167.4	179.8	215.8	302.4	330.4	321.8	318.6	315.4
77.5°	374.3	247.9	130.8	148.0	156.3	186.5	263.9	290.9	282.0	269.6	265.4
80°	151.5	116.8	105.4	122.5	127.3	150.2	219.6	236.5	229.8	208.2	201.2
82.5°	76.1	70.0	82.8	96.4	96.8	107.3	163.3	179.2	164.2	137.8	131.8
85°	39.8	41.1	57.0	67.8	59.8	57.9	98.0	108.5	99.6	86.6	78.0
87.5°	14.3	16.6	29.9	29.6	21.0	11.1	21.6	10.5	5.7	3.5	4.5
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)