

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: P651749

Luminaire Tested: **GALN-SA2A-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7881.9 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

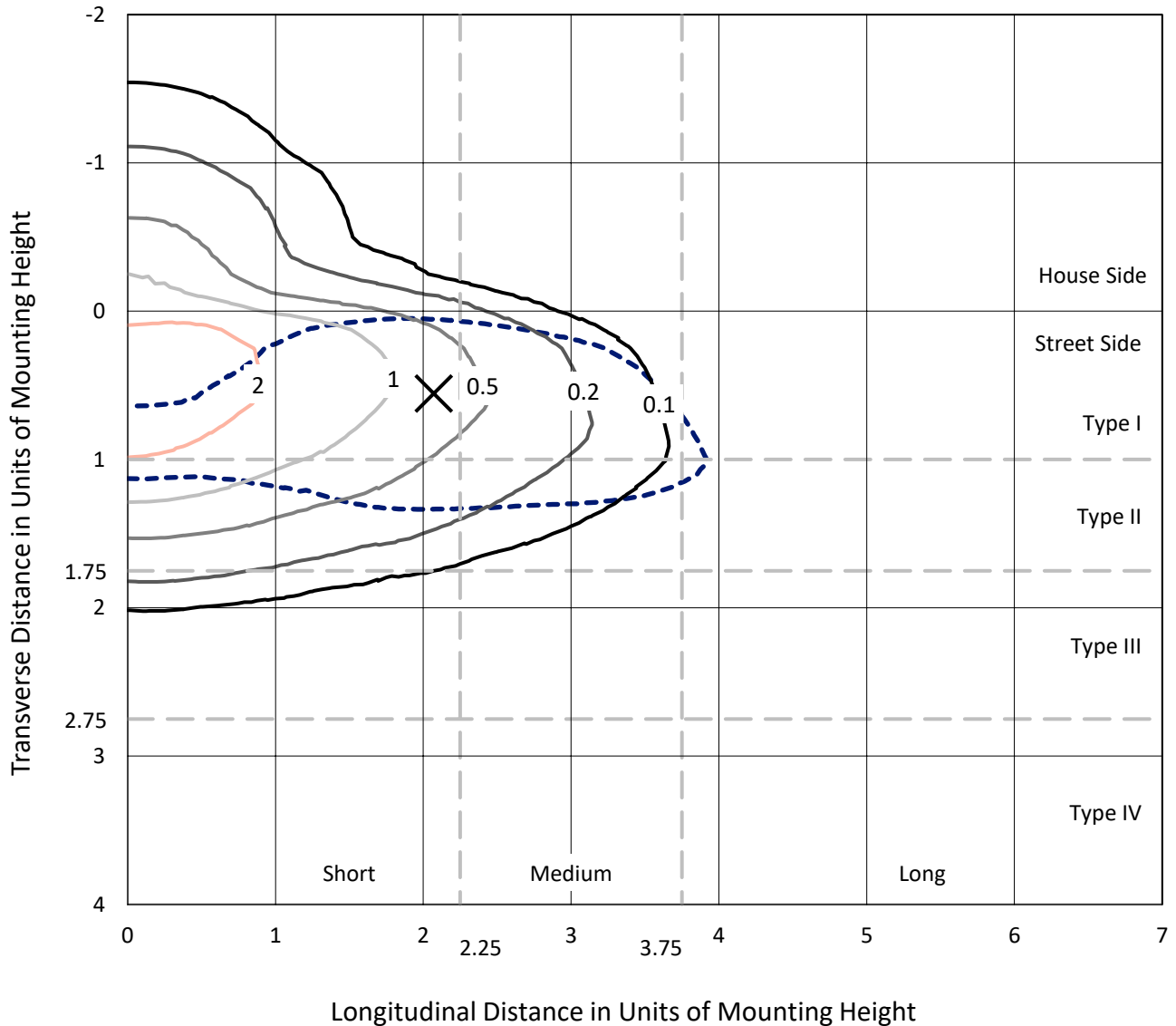




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Iso-Footcandle Lines of Horizontal Illumination

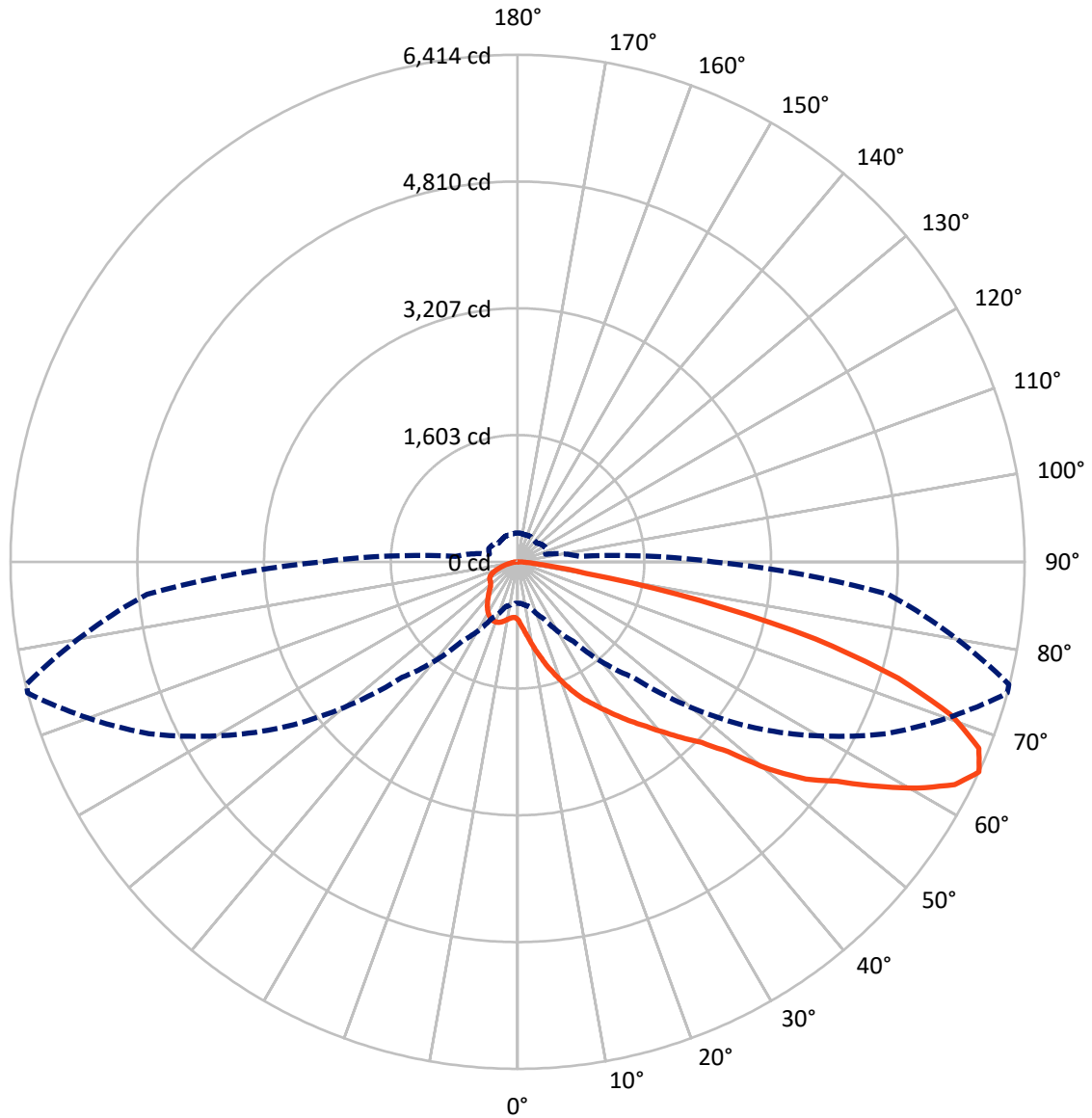
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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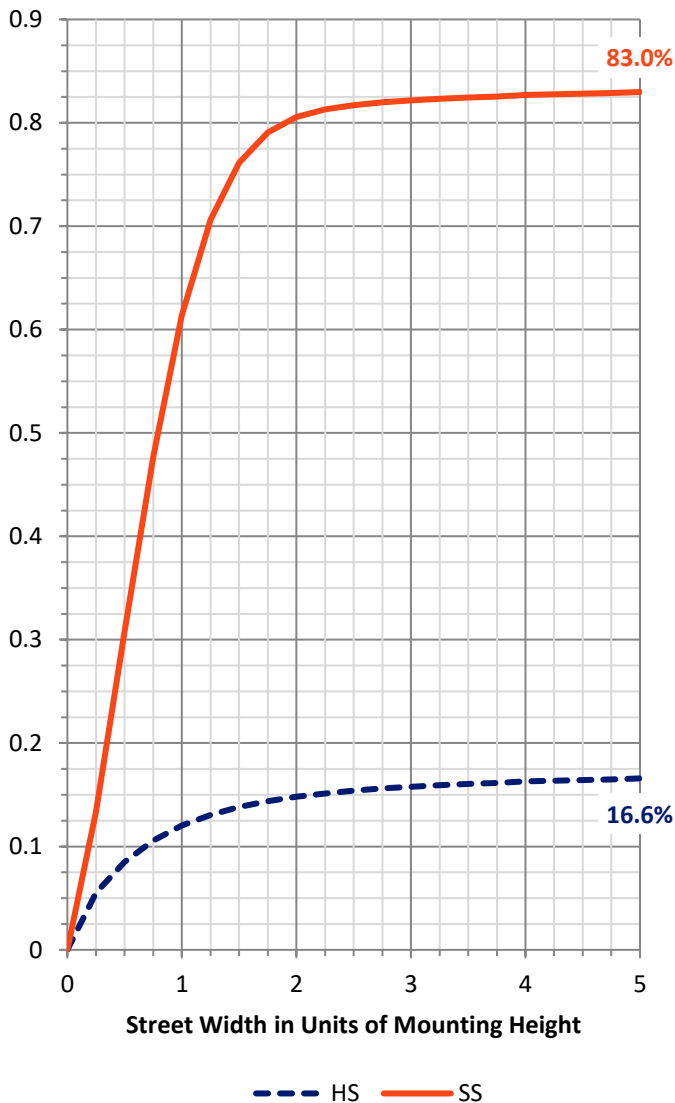
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1325.0	0.0	1325.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	6556.8	0.0	6556.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	7881.9	0.0	7881.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.1
10°-20°	348.5	4.4
20°-30°	673.2	8.5
30°-40°	1093.5	13.9
40°-50°	1504.2	19.1
50°-60°	1775.9	22.5
60°-70°	1556.0	19.7
70°-80°	742.8	9.4
80°-90°	98.8	1.3
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°	7881.9	100.0
0°-180°	7881.9	100.0

Coefficient of Utilization



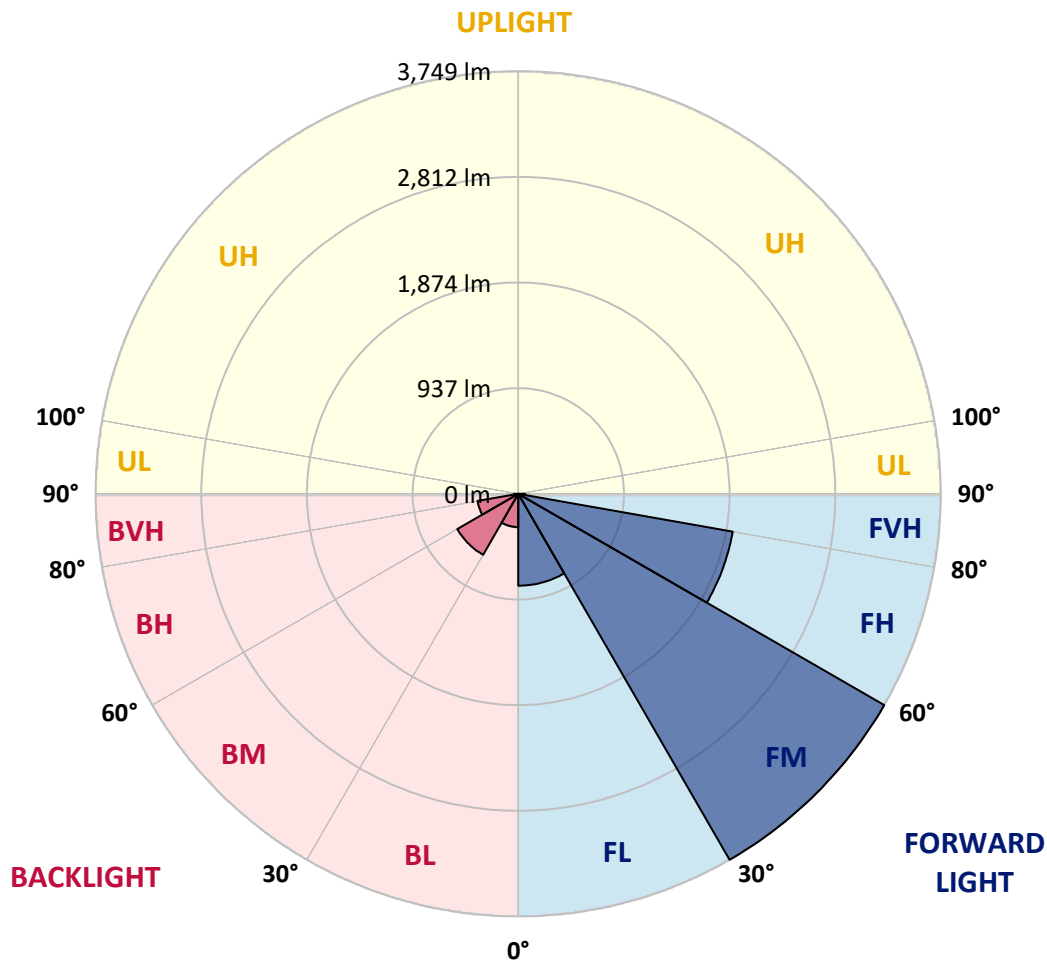
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.9	10.3			
FM (30°-60°)	3748.8	47.6			
FH (60°-80°)	1931.4	24.5			G2/5000
FVH (80°-90°)	61.8	0.8			G1/100
BL (0°-30°)	295.8	3.8	B1/500		
BM (30°-60°)	624.7	7.9	B1/1000		
BH (60°-80°)	367.4	4.7	B1/500		G1/500
BVH (80°-90°)	37.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3
2.5°	973.0	966.6	959.7	940.9	920.9	898.2	865.7	834.5	793.1	791.7	760.9
5°	1242.7	1238.5	1208.2	1190.6	1144.0	1082.0	1029.5	947.8	872.1	863.1	803.3
7.5°	1490.8	1474.0	1462.5	1430.9	1384.7	1305.1	1203.5	1093.1	966.6	954.6	855.5
10°	1677.5	1675.9	1669.9	1642.5	1607.8	1528.8	1415.9	1257.7	1086.3	1062.8	918.7
12.5°	1817.3	1818.7	1817.7	1817.3	1792.5	1725.4	1603.2	1436.4	1207.3	1190.6	991.8
15°	1909.2	1922.1	1927.2	1948.6	1950.7	1905.9	1800.7	1609.2	1343.7	1318.9	1070.5
17.5°	1970.0	1976.4	2000.3	2036.6	2066.2	2058.0	1964.4	1769.0	1483.0	1441.6	1152.2
20°	2028.1	2039.3	2057.6	2107.2	2159.4	2183.3	2117.5	1932.8	1621.1	1594.6	1242.3
22.5°	2149.1	2164.9	2171.3	2196.5	2241.0	2283.3	2253.4	2089.6	1772.5	1736.6	1338.1
25°	2353.9	2370.5	2352.6	2346.6	2361.1	2382.0	2375.7	2237.6	1915.2	1863.9	1428.8
27.5°	2620.6	2622.7	2587.7	2554.4	2518.5	2507.8	2488.1	2368.8	2039.3	1996.4	1519.8
30°	2907.1	2896.8	2838.6	2778.4	2717.7	2657.8	2601.4	2495.3	2177.3	2128.2	1609.2
32.5°	3173.0	3167.5	3102.9	3009.3	2906.7	2850.2	2736.0	2623.2	2325.2	2277.8	1701.1
35°	3372.2	3380.3	3309.3	3207.2	3095.1	3045.2	2901.1	2757.5	2478.3	2426.5	1801.1
37.5°	3513.7	3509.4	3446.6	3358.1	3259.8	3216.2	3093.9	2904.1	2642.8	2593.3	1910.5
40°	3564.2	3561.6	3515.0	3450.5	3388.1	3372.7	3295.7	3062.2	2831.4	2773.3	2042.2
42.5°	3532.1	3537.7	3506.9	3489.3	3477.8	3488.9	3496.2	3269.6	3037.0	2983.6	2185.0
45°	3433.7	3430.8	3426.5	3455.2	3520.1	3593.3	3694.5	3465.4	3260.6	3217.8	2376.5
47.5°	3258.0	3279.4	3290.1	3369.2	3511.2	3684.3	3922.8	3727.9	3585.1	3547.9	2668.5
50°	3012.2	3029.4	3092.6	3233.2	3444.9	3718.5	4146.0	4157.1	4126.3	4056.6	2985.7
52.5°	2628.3	2654.9	2785.2	3043.0	3308.9	3704.4	4281.1	4525.2	4565.8	4513.6	3298.2
55°	2198.7	2235.9	2373.6	2711.7	3121.7	3627.4	4374.3	4738.5	4900.5	4852.2	3599.2
57.5°	1778.0	1817.3	1958.9	2286.3	2795.1	3457.3	4435.4	4976.2	5356.2	5293.4	3973.7
60°	1332.6	1373.6	1495.0	1832.3	2329.9	3124.7	4394.0	5182.2	5811.6	5784.7	4348.6
62.5°	859.8	905.0	1010.6	1289.8	1790.8	2670.3	4172.0	5295.9	6205.7	6173.3	4622.2
65°	523.7	528.8	586.9	800.7	1225.7	2067.4	3664.6	5145.1	6413.5	6403.6	4705.6
67.5°	338.6	346.7	373.2	479.7	734.9	1436.0	2930.1	4647.0	6292.1	6288.7	4533.3
70°	286.0	288.5	300.6	323.6	427.1	870.9	2057.6	3853.1	5830.8	5830.8	4119.0
72.5°	255.7	259.1	263.3	270.6	304.8	493.3	1227.8	2999.4	5034.3	5067.7	3506.0
75°	232.1	231.3	233.9	235.1	260.0	322.4	634.9	2218.3	3894.6	3827.9	2539.0
77.5°	198.8	200.1	198.8	204.4	229.6	245.4	322.4	1488.6	2360.3	2273.9	1274.4
80°	163.3	165.4	167.6	171.0	196.2	186.4	193.7	678.4	873.0	854.6	393.8
82.5°	122.7	125.7	129.1	137.3	154.3	123.1	122.3	289.9	315.0	288.5	144.9
85°	49.6	58.5	88.5	96.6	97.1	67.5	75.3	121.0	128.7	125.7	56.9
87.5°	11.5	13.7	28.7	43.1	39.8	25.2	27.8	39.4	44.9	41.5	19.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3	732.3
2.5°	746.9	731.9	706.3	686.6	672.5	660.1	652.4	647.7	646.0	645.6	646.0
5°	772.1	745.5	704.9	679.3	665.2	657.1	652.4	651.9	652.4	652.8	651.5
7.5°	806.7	768.7	715.7	691.7	681.0	675.1	672.9	672.0	672.5	672.0	672.0
10°	852.9	800.7	736.6	711.8	702.8	696.0	692.6	690.5	688.7	687.0	686.2
12.5°	903.7	836.2	759.3	735.3	722.5	711.8	704.1	698.5	694.7	690.9	690.0
15°	960.6	873.8	784.5	751.1	732.8	717.0	703.7	694.7	687.9	682.3	681.9
17.5°	1014.9	909.3	801.6	758.4	731.5	709.2	691.7	679.3	670.8	663.5	662.6
20°	1073.0	943.1	809.3	753.7	718.6	691.7	668.6	653.6	643.9	635.7	634.5
22.5°	1131.6	971.7	808.5	738.7	696.4	664.8	640.4	624.6	613.1	604.9	601.9
25°	1187.7	994.8	797.8	714.8	665.7	632.7	608.0	593.4	583.1	573.3	573.3
27.5°	1238.0	1008.5	777.7	685.8	634.0	599.4	579.7	566.4	557.1	550.6	546.8
30°	1287.7	1014.9	750.3	649.0	600.6	571.1	555.3	547.7	539.1	531.8	531.0
32.5°	1332.1	1013.7	716.1	613.1	569.0	548.1	541.7	535.6	526.7	516.5	513.9
35°	1375.3	1005.1	675.5	573.7	542.5	534.4	536.1	527.6	511.3	498.5	496.4
37.5°	1422.3	989.7	631.0	541.7	520.2	528.0	532.3	513.4	486.9	466.8	462.1
40°	1476.6	972.2	584.8	509.6	502.7	522.0	522.0	487.4	451.0	438.7	435.2
42.5°	1540.3	957.6	546.4	482.6	488.2	507.5	505.4	452.7	437.7	431.3	429.7
45°	1641.2	952.5	506.6	459.2	476.3	490.4	472.8	440.8	432.2	427.1	425.4
47.5°	1800.7	958.5	471.5	441.6	462.6	473.2	436.5	432.6	426.6	419.4	418.6
50°	1948.6	952.9	446.7	431.8	450.6	452.7	421.5	422.8	419.4	411.2	409.6
52.5°	2069.5	935.4	430.9	426.6	440.3	416.8	407.4	412.1	410.8	400.6	398.9
55°	2202.5	924.7	423.3	426.6	433.5	385.6	394.2	401.0	399.3	392.0	391.6
57.5°	2363.7	926.9	417.6	427.9	426.6	369.8	380.9	389.0	388.6	386.4	386.4
60°	2528.7	927.7	409.1	427.5	418.6	357.4	367.3	378.8	379.6	380.9	380.9
62.5°	2583.5	890.5	392.5	419.8	400.6	345.4	354.4	370.2	369.4	372.8	373.2
65°	2481.3	787.5	367.7	402.3	377.5	336.9	344.6	359.1	354.4	363.4	365.1
67.5°	2258.5	651.5	329.2	370.6	351.9	327.9	338.2	343.7	335.1	352.7	353.1
70°	1952.0	508.7	280.5	325.8	322.8	318.5	333.0	324.5	312.5	333.9	329.6
72.5°	1632.2	388.6	224.0	266.3	283.8	304.4	324.0	299.6	283.0	289.4	281.7
75°	1226.1	287.3	180.0	208.7	236.4	284.3	316.0	269.8	244.1	238.1	236.4
77.5°	625.0	187.7	134.6	156.0	177.5	256.9	304.8	234.7	202.2	192.8	188.6
80°	223.2	116.7	94.9	107.7	119.7	221.0	266.3	194.1	156.9	155.2	156.9
82.5°	103.4	75.3	63.7	70.6	71.0	147.5	203.1	144.9	119.3	181.2	153.1
85°	44.5	37.6	35.9	35.1	32.5	65.9	114.1	77.8	121.4	54.3	50.0
87.5°	13.3	15.0	13.3	9.8	7.2	7.2	11.5	4.3	3.0	2.1	2.1
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)