

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: P451165

Luminaire Tested: **GALN-SA2A-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8423 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

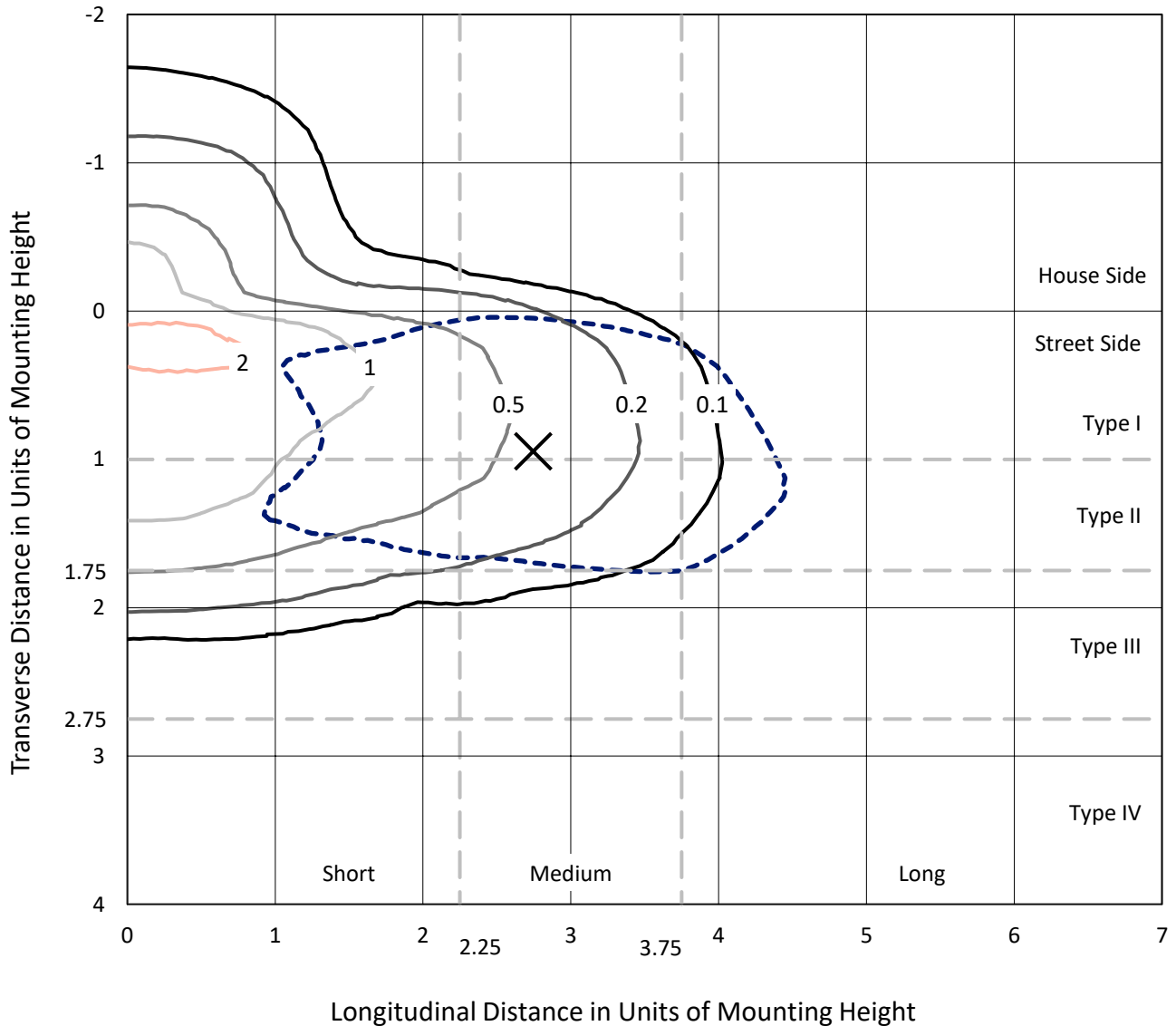
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

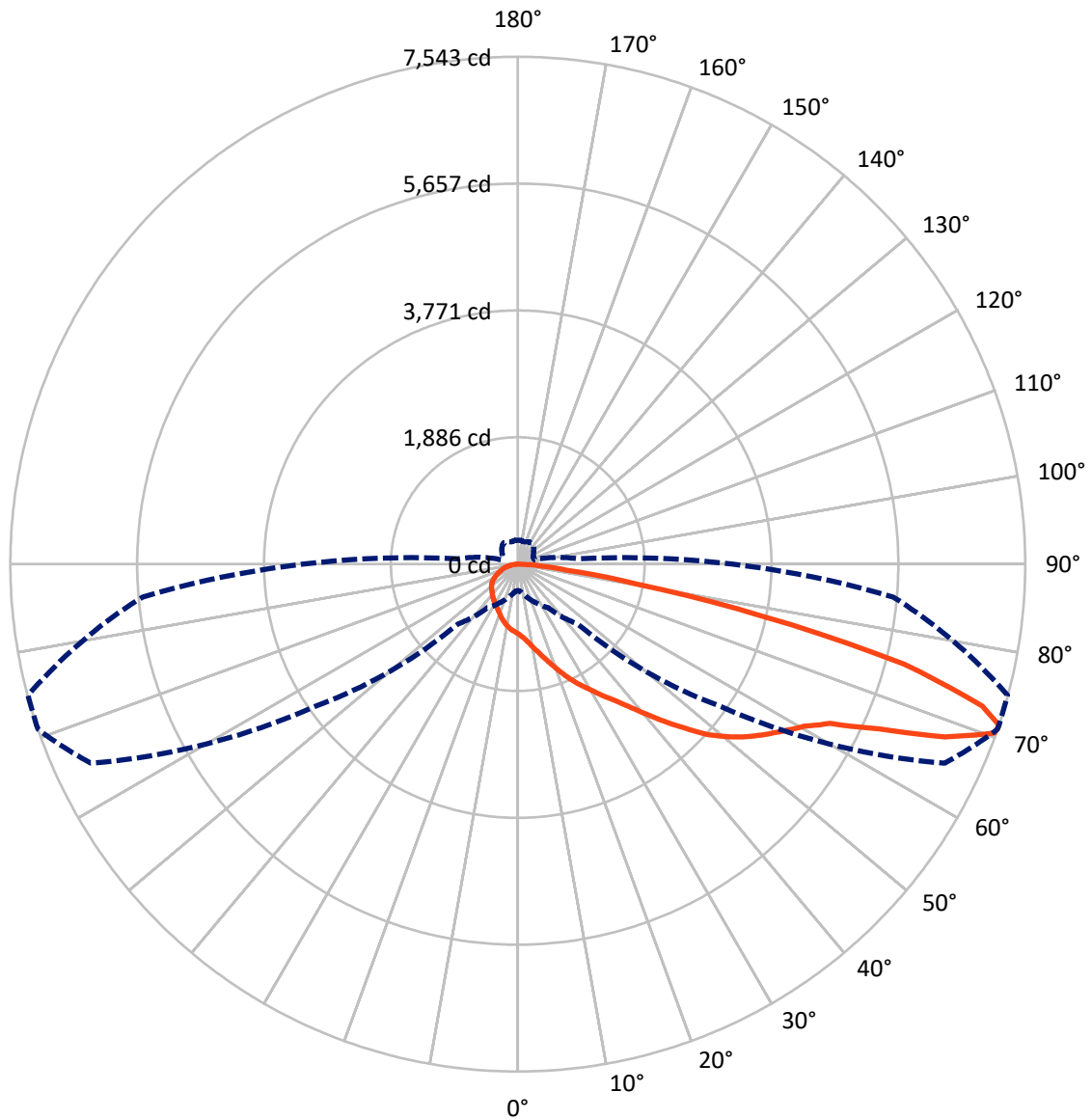
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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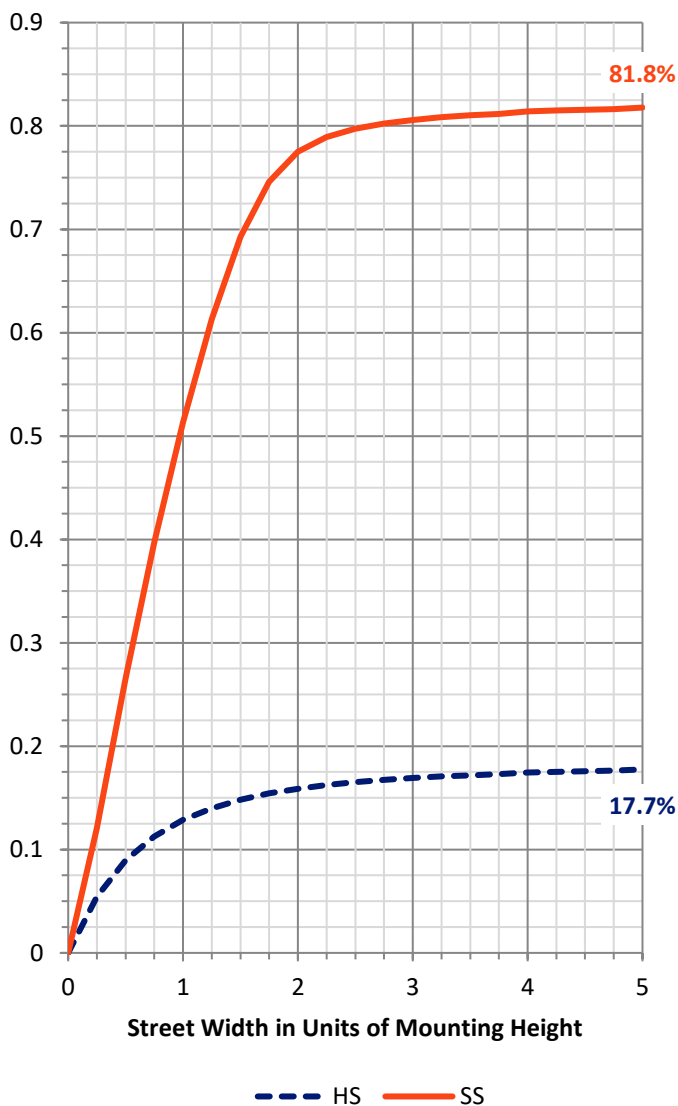
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.8	0.0	1514.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	6908.1	0.0	6908.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	8423.0	0.0	8423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.2
10°-20°	337.2	4.0
20°-30°	589.3	7.0
30°-40°	876.6	10.4
40°-50°	1291.5	15.3
50°-60°	1808.1	21.5
60°-70°	2022.3	24.0
70°-80°	1235.3	14.7
80°-90°	158.9	1.9
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°	8423.0	100.0
0°-180°	8423.0	100.0

Coefficient of Utilization



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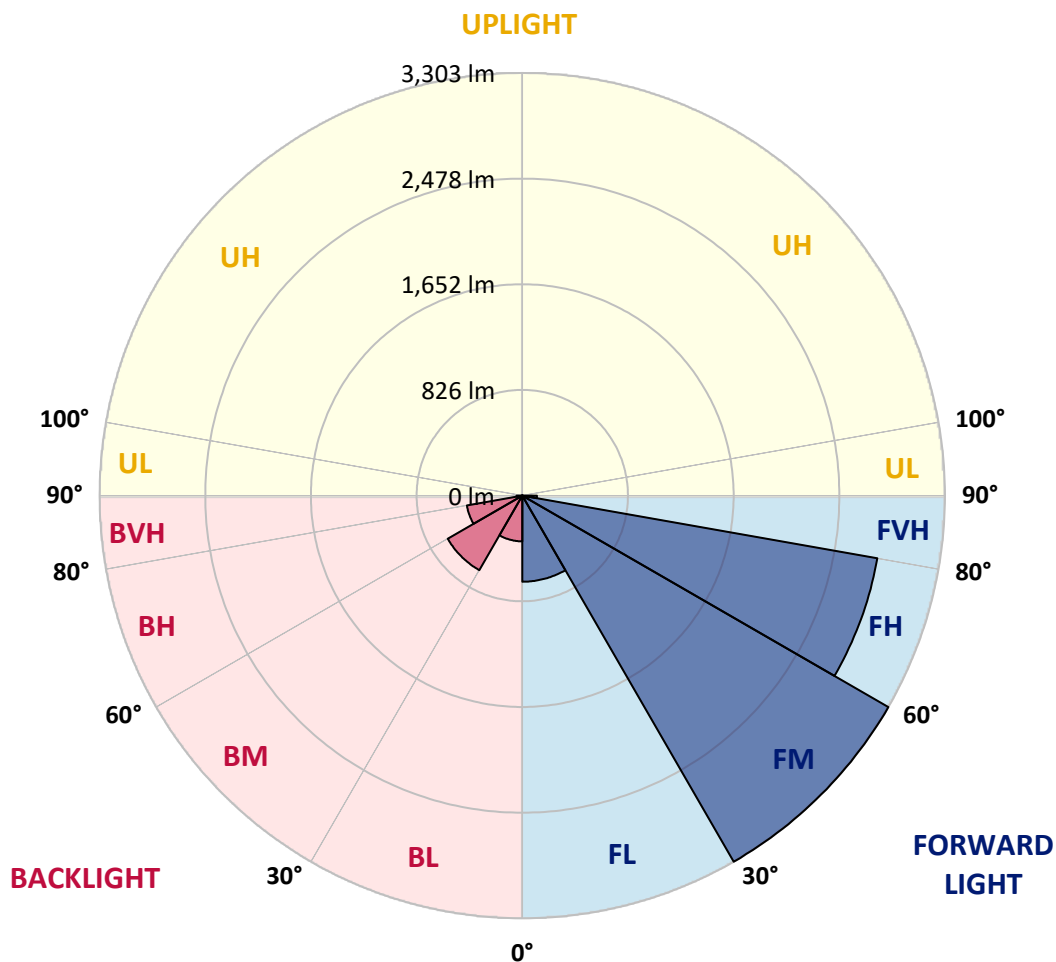
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	673.0	8.0			
FM	(30°-60°)	3303.3	39.2			
FH	(60°-80°)	2817.5	33.4			G2/5000
FVH	(80°-90°)	114.3	1.4			G2/225
BL	(0°-30°)	357.3	4.2	B1/500		
BM	(30°-60°)	672.8	8.0	B1/1000		
BH	(60°-80°)	440.1	5.2	B1/500		G1/500
BVH	(80°-90°)	44.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8
2.5°	1147.6	1142.1	1142.5	1134.7	1124.5	1113.4	1097.6	1083.8	1072.6	1066.2	1047.2
5°	1271.7	1266.2	1259.2	1242.1	1234.7	1207.4	1172.6	1141.2	1117.1	1103.7	1065.7
7.5°	1372.2	1370.8	1368.9	1359.2	1340.2	1302.3	1272.6	1218.0	1182.4	1156.9	1092.1
10°	1434.2	1436.5	1437.9	1439.8	1431.9	1412.0	1371.2	1302.3	1256.9	1224.5	1126.3
12.5°	1465.7	1468.0	1475.9	1493.0	1503.6	1501.3	1468.0	1400.4	1337.9	1295.3	1162.9
15°	1485.1	1488.8	1502.7	1525.4	1561.1	1583.7	1567.5	1505.0	1436.5	1386.1	1206.4
17.5°	1506.4	1510.6	1525.9	1558.3	1605.0	1654.1	1671.7	1618.0	1543.5	1483.3	1255.0
20°	1518.5	1524.0	1545.8	1588.4	1643.0	1714.3	1772.6	1744.4	1662.9	1596.2	1311.1
22.5°	1537.9	1542.5	1561.1	1606.4	1671.7	1761.0	1873.5	1867.5	1795.8	1709.7	1372.6
25°	1590.7	1598.1	1607.3	1634.7	1697.6	1808.7	1957.3	1999.0	1924.5	1828.2	1429.1
27.5°	1690.2	1696.2	1695.8	1699.5	1735.1	1849.9	2030.0	2129.1	2052.2	1948.1	1483.7
30°	1803.6	1806.0	1807.8	1799.5	1807.3	1892.1	2096.7	2257.8	2180.9	2071.2	1531.4
32.5°	1941.6	1946.2	1930.5	1909.2	1902.7	1954.6	2151.8	2386.5	2333.2	2196.2	1578.6
35°	2104.5	2116.6	2084.6	2047.1	2020.8	2044.4	2225.8	2518.0	2489.3	2355.9	1641.1
37.5°	2290.7	2305.5	2275.8	2202.2	2164.7	2171.2	2322.6	2680.5	2686.5	2537.9	1734.2
40°	2443.0	2462.4	2463.3	2359.2	2302.2	2309.6	2445.3	2855.4	2924.4	2762.9	1843.9
42.5°	2543.4	2562.4	2582.3	2521.2	2461.5	2503.6	2588.3	3045.3	3192.0	3036.0	1997.1
45°	2653.6	2670.7	2681.8	2654.1	2620.7	2730.0	2761.0	3247.1	3477.2	3341.1	2164.7
47.5°	2781.4	2800.4	2811.0	2784.6	2772.1	2928.6	2947.1	3435.5	3781.8	3637.4	2349.9
50°	2951.7	2966.1	2960.5	2943.9	2941.1	3080.9	3125.8	3611.9	4033.2	3956.3	2542.0
52.5°	3163.8	3180.9	3186.9	3163.3	3152.7	3189.7	3269.8	3772.5	4261.9	4230.4	2747.1
55°	3292.0	3319.3	3411.0	3448.0	3473.5	3330.4	3424.9	3949.9	4467.0	4519.3	2967.5
57.5°	3127.7	3162.8	3367.9	3553.1	3792.4	3682.3	3644.8	4135.0	4672.0	4799.4	3231.4
60°	2726.7	2734.6	2999.0	3340.2	3821.6	4134.6	4103.5	4429.5	4894.3	5081.8	3579.0
62.5°	1891.6	1908.3	2220.7	2765.2	3461.4	4297.5	4884.1	4937.8	5212.8	5504.4	4088.7
65°	975.4	953.7	1238.4	1737.9	2609.6	3910.5	5516.5	5872.5	5903.5	6165.5	4806.3
67.5°	600.4	610.2	743.5	1014.8	1543.0	2842.0	5450.3	7014.5	6851.1	6977.1	5472.5
70°	450.9	462.9	554.6	694.4	940.7	1624.9	4383.2	7291.4	7519.6	7487.2	5675.2
71°	392.1	404.6	500.0	631.9	790.2	1254.1	3692.9	7001.6	7542.8	7537.2	5598.9
72.5°	334.2	342.1	416.7	535.2	666.2	879.1	2774.4	6279.4	7221.0	7405.7	5326.2
75°	262.5	268.5	301.8	408.3	524.5	539.8	1488.8	4707.7	5930.8	6282.6	4434.1
77.5°	213.9	218.0	235.2	303.2	404.6	382.4	781.0	3064.2	3715.6	4069.8	2611.9
80°	169.9	174.5	184.7	205.5	303.2	272.7	372.7	1552.7	1794.8	1791.1	1042.6
82.5°	131.9	133.3	145.4	150.9	207.4	193.5	201.8	657.4	728.2	752.3	376.4
85°	83.3	87.5	128.7	115.7	124.1	113.4	99.5	261.1	321.7	317.1	150.5
87.5°	25.5	26.9	43.5	49.1	55.1	49.5	36.6	76.8	94.0	101.8	37.5
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°	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8	1033.8
2.5°	1039.8	1034.7	1016.6	1001.8	987.9	972.6	959.7	956.0	952.7	951.4	950.9
5°	1049.5	1034.2	998.6	969.4	946.3	925.0	911.5	905.5	899.5	899.5	901.4
7.5°	1063.4	1035.6	980.5	937.0	907.8	887.9	878.2	877.3	878.7	880.1	880.5
10°	1078.7	1034.7	954.1	900.0	874.0	864.8	865.2	873.1	880.5	886.1	887.0
12.5°	1093.5	1029.1	923.1	865.2	848.6	850.4	863.4	881.0	895.3	903.2	903.7
15°	1110.1	1020.3	885.6	832.4	826.8	841.2	865.2	892.1	913.9	926.8	928.2
17.5°	1124.0	1005.5	846.3	800.4	807.4	833.8	867.1	901.8	928.2	944.4	947.2
20°	1139.8	986.5	805.5	769.9	789.8	825.4	863.4	900.9	928.2	943.9	947.6
22.5°	1152.3	959.7	766.6	744.9	774.0	815.2	850.9	881.0	903.2	911.5	917.1
25°	1157.4	925.9	730.1	724.5	761.5	798.6	822.7	839.8	846.7	845.8	848.1
27.5°	1154.6	887.0	698.6	708.3	745.8	772.7	784.7	783.3	770.8	759.2	764.8
30°	1143.0	840.7	672.2	691.6	725.4	740.2	738.4	720.3	696.7	675.0	676.4
32.5°	1122.2	790.7	647.7	672.7	696.7	703.2	690.7	667.1	633.3	605.1	600.9
35°	1104.6	743.0	625.9	650.9	668.0	664.8	652.8	622.2	591.6	566.6	562.5
37.5°	1101.8	702.3	605.1	626.4	636.1	631.5	616.6	590.7	579.6	560.6	558.3
40°	1116.6	673.6	583.8	600.4	605.1	601.4	585.2	570.3	580.5	575.9	575.9
42.5°	1156.9	658.3	564.8	574.5	578.2	581.0	569.4	556.9	569.4	548.1	541.2
45°	1220.8	658.8	547.7	549.1	560.2	569.9	562.0	543.5	537.0	494.4	486.1
47.5°	1314.8	674.5	533.8	525.0	544.9	561.1	550.0	523.1	494.4	466.2	461.1
50°	1424.5	702.8	521.3	500.0	524.5	550.0	541.6	510.2	480.5	463.4	460.2
52.5°	1546.2	738.4	506.0	472.2	499.5	544.9	543.5	508.3	467.6	456.0	453.2
55°	1696.7	773.6	487.0	439.8	477.3	540.7	538.4	493.0	464.8	456.5	455.5
57.5°	1871.7	824.5	459.7	406.9	451.8	523.6	518.5	483.8	455.5	449.5	449.1
60°	2153.6	903.7	420.8	376.8	425.9	493.5	500.0	468.0	440.7	439.3	438.9
62.5°	2524.4	1014.8	380.5	345.8	395.8	454.6	473.1	446.7	425.0	431.9	432.9
65°	3036.5	1108.3	338.9	319.4	362.5	417.1	447.7	426.8	407.4	420.8	420.8
67.5°	3370.2	1110.1	300.9	292.1	328.7	385.6	420.8	403.2	384.7	407.4	408.3
70°	3300.8	972.6	269.4	263.4	295.8	351.8	391.2	377.3	356.0	376.4	369.0
71°	3188.8	896.3	256.9	252.3	282.9	335.6	377.3	365.7	344.4	357.9	353.7
72.5°	3010.1	778.2	236.6	237.5	263.4	315.3	357.9	345.8	324.5	331.9	330.5
75°	2544.3	679.6	202.3	206.5	226.4	280.5	319.0	309.7	288.0	288.0	286.6
77.5°	1590.7	475.0	168.0	170.4	192.1	240.3	274.1	266.2	245.4	238.4	236.6
80°	593.5	245.4	131.5	134.3	147.7	189.3	226.8	219.4	198.1	190.3	182.9
82.5°	224.5	123.1	96.8	94.4	108.8	144.4	177.8	169.0	152.3	133.3	127.8
85°	84.7	61.1	59.3	57.4	63.9	85.6	110.2	108.3	90.7	77.3	75.9
87.5°	22.2	19.9	23.1	17.1	18.1	16.2	16.7	6.9	3.2	1.4	0.9
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)