

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: P453224

Luminaire Tested: **GALN-SA4B-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453224
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-SA4B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18933 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

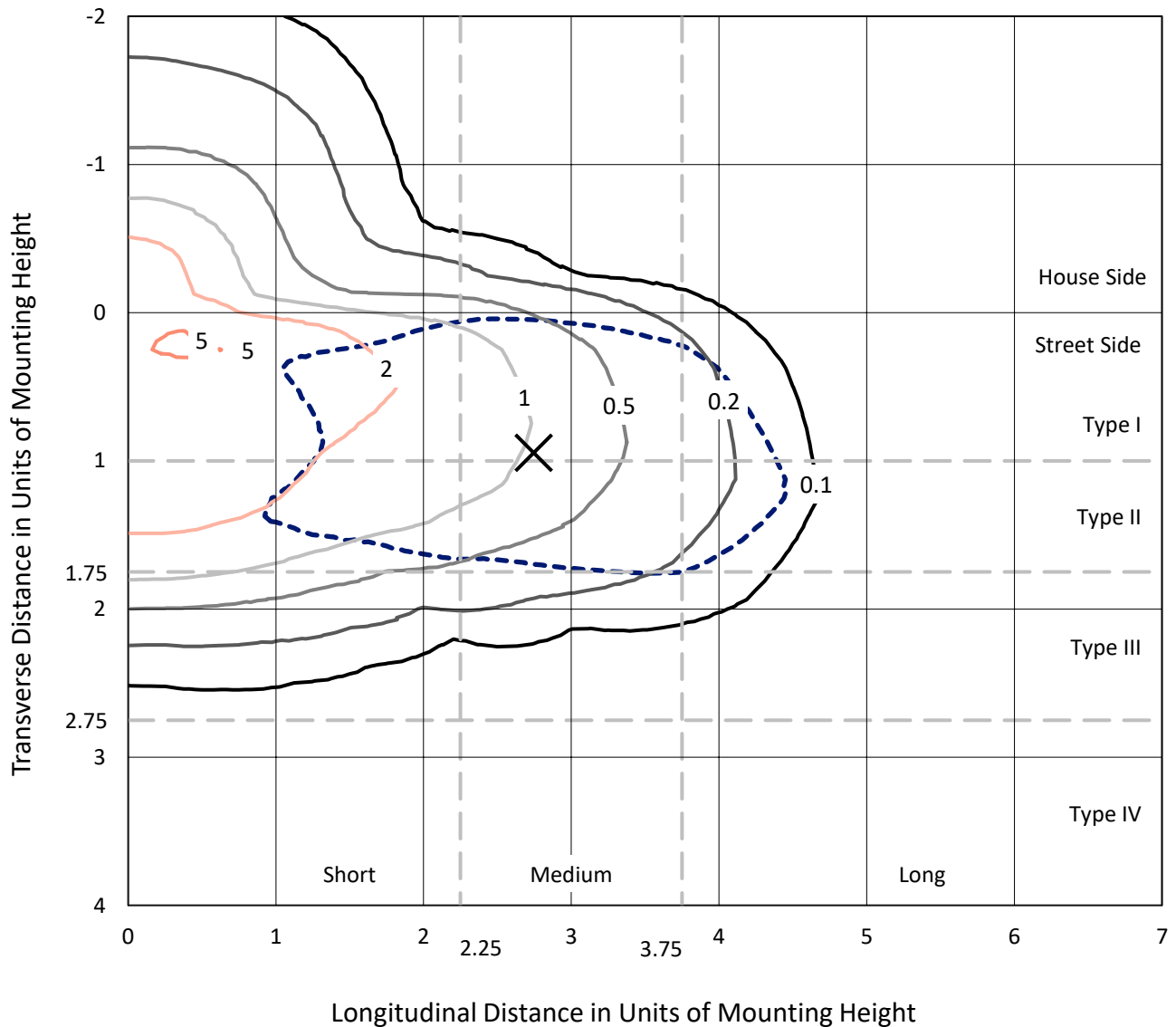
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

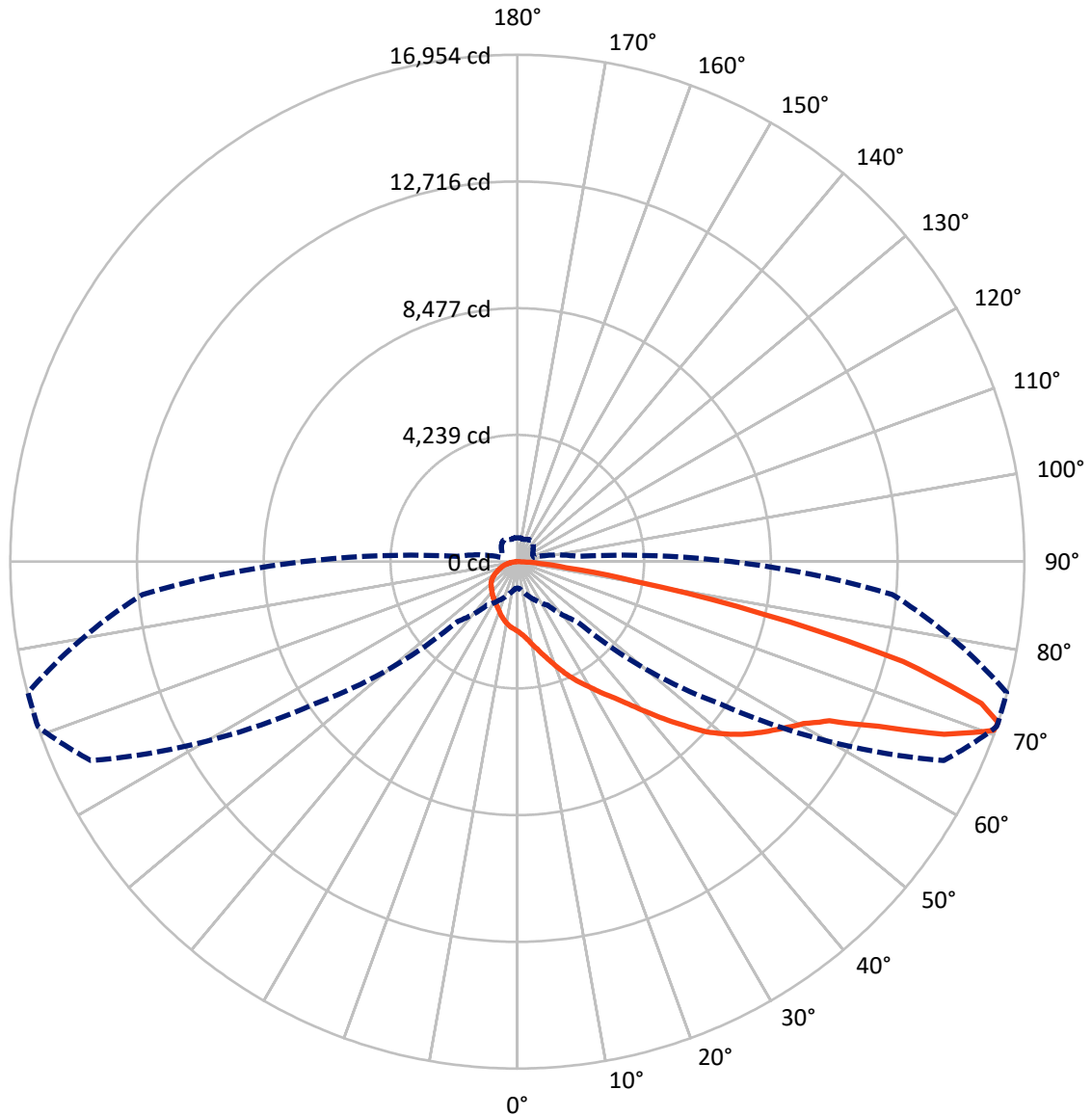
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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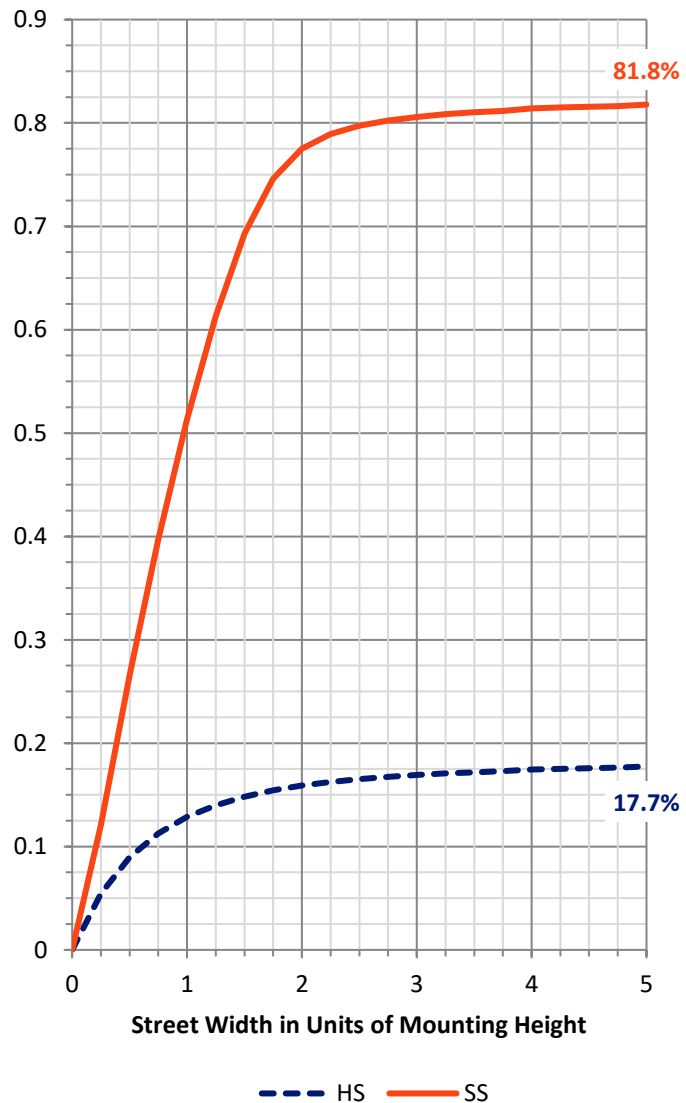
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3405.1	0.0	3405.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	15527.9	0.0	15527.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	18933.0	0.0	18933.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	1.2
10°-20°	758.0	4.0
20°-30°	1324.7	7.0
30°-40°	1970.3	10.4
40°-50°	2903.0	15.3
50°-60°	4064.2	21.5
60°-70°	4545.7	24.0
70°-80°	2776.7	14.7
80°-90°	357.2	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°	18933.0	100.0
0°-180°	18933.0	100.0



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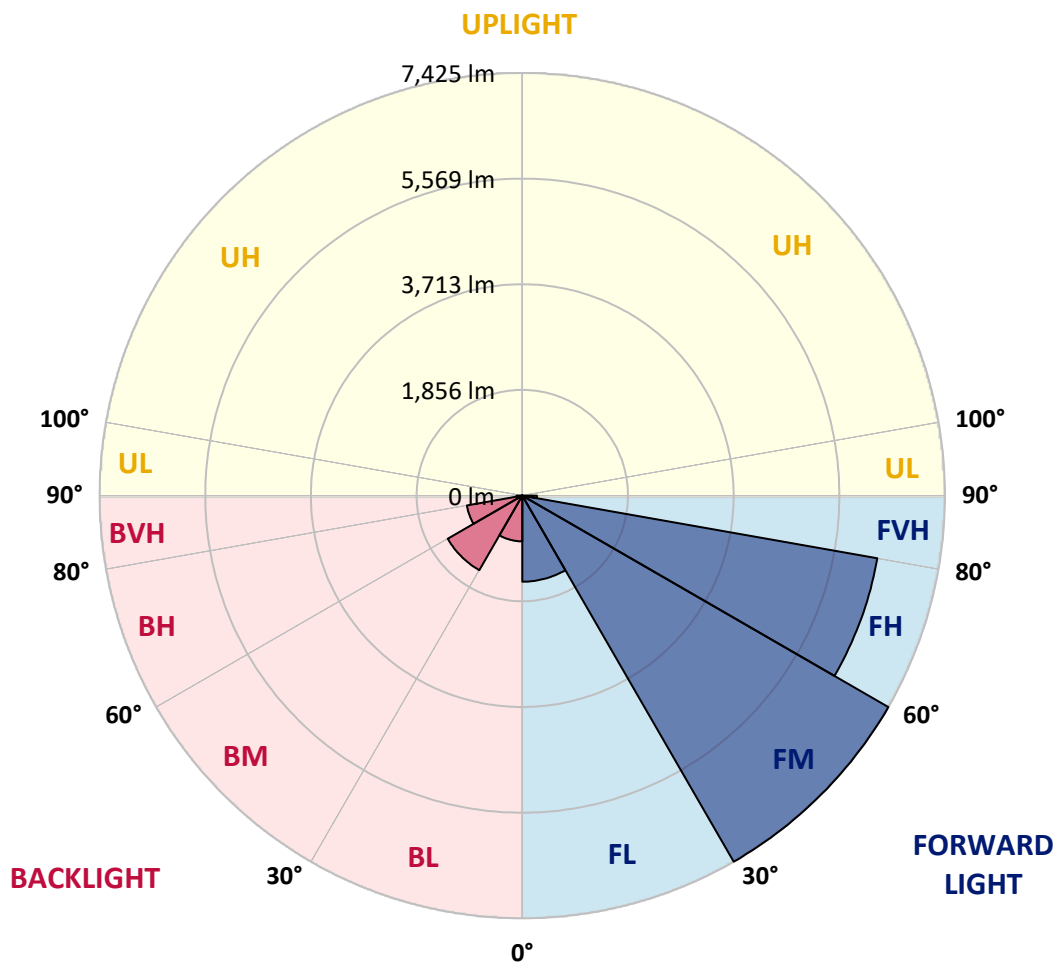
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1512.8	8.0			
FM	(30°-60°)	7425.1	39.2			
FH	(60°-80°)	6333.0	33.4			G3/7500
FVH	(80°-90°)	257.0	1.4			G3/500
BL	(0°-30°)	803.2	4.2	B2/1000		
BM	(30°-60°)	1512.3	8.0	B2/2500		
BH	(60°-80°)	989.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	100.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7
2.5°	2579.6	2567.2	2568.2	2550.5	2527.6	2502.6	2467.3	2436.0	2411.1	2396.5	2353.8
5°	2858.5	2846.0	2830.4	2791.9	2775.3	2713.9	2635.8	2565.1	2511.0	2480.8	2395.5
7.5°	3084.3	3081.2	3077.0	3055.2	3012.5	2927.2	2860.6	2737.8	2657.7	2600.5	2454.8
10°	3223.8	3229.0	3232.1	3236.3	3218.6	3173.8	3082.2	2927.2	2825.2	2752.4	2531.8
12.5°	3294.5	3299.7	3317.4	3355.9	3379.9	3374.7	3299.7	3147.8	3007.3	2911.6	2614.0
15°	3338.2	3346.6	3377.8	3428.8	3508.9	3559.9	3523.5	3383.0	3229.0	3115.5	2711.8
17.5°	3386.1	3395.5	3429.8	3502.6	3607.7	3718.1	3757.6	3636.9	3469.3	3334.1	2821.1
20°	3413.2	3425.6	3474.6	3570.3	3693.1	3853.3	3984.4	3921.0	3737.8	3588.0	2947.0
22.5°	3456.9	3467.3	3508.9	3610.9	3757.6	3958.4	4211.3	4197.8	4036.5	3842.9	3085.4
25°	3575.5	3592.1	3613.0	3674.3	3815.9	4065.6	4399.6	4493.3	4325.8	4109.3	3212.3
27.5°	3799.2	3812.7	3811.7	3820.0	3900.2	4158.2	4563.0	4785.7	4613.0	4378.8	3335.1
30°	4054.2	4059.4	4063.5	4044.8	4062.5	4252.9	4712.9	5075.0	4902.3	4655.6	3442.3
32.5°	4364.3	4374.7	4339.3	4291.4	4276.9	4393.4	4836.7	5364.3	5244.6	4936.6	3548.4
35°	4730.6	4757.6	4685.8	4601.5	4542.2	4595.3	5003.2	5659.8	5595.3	5295.6	3688.9
37.5°	5148.9	5182.2	5115.6	4950.1	4865.8	4880.4	5220.7	6025.1	6038.6	5704.6	3898.1
40°	5491.2	5534.9	5537.0	5302.9	5174.9	5191.5	5496.4	6418.4	6573.4	6210.3	4144.7
42.5°	5717.0	5759.7	5804.4	5667.1	5532.9	5627.5	5818.0	6845.0	7174.9	6824.2	4489.1
45°	5964.7	6003.2	6028.2	5965.7	5890.8	6136.4	6206.1	7298.7	7815.9	7510.0	4865.8
47.5°	6251.9	6294.6	6318.5	6259.2	6231.1	6582.8	6624.4	7722.3	8500.6	8176.0	5282.1
50°	6634.8	6667.1	6654.6	6617.2	6610.9	6925.2	7026.1	8118.7	9065.7	8892.9	5713.9
52.5°	7111.4	7149.9	7163.5	7110.4	7086.5	7169.7	7349.7	8479.8	9579.7	9509.0	6174.9
55°	7399.7	7461.1	7667.1	7750.4	7807.6	7486.1	7698.3	8878.4	10040.7	10158.3	6670.2
57.5°	7030.3	7109.4	7570.3	7986.6	8524.6	8276.9	8192.6	9294.6	10501.7	10787.9	7263.4
60°	6129.1	6146.8	6741.0	7507.9	8590.1	9293.6	9223.8	9956.4	11001.2	11422.6	8044.9
62.5°	4251.9	4289.3	4991.7	6215.5	7780.5	9659.9	10978.3	11099.0	11717.1	12372.7	9190.5
65°	2192.5	2143.6	2783.6	3906.4	5865.8	8789.9	12399.7	13200.0	13269.7	13858.7	10803.5
67.5°	1349.7	1371.5	1671.2	2281.0	3468.3	6388.2	12250.9	15767.1	15399.8	15682.8	12300.9
70°	1013.5	1040.6	1246.6	1560.9	2114.5	3652.5	9852.4	16389.4	16902.4	16829.6	12756.7
71°	881.4	909.5	1123.8	1420.4	1776.3	2819.0	8300.8	15738.0	16954.4	16942.0	12585.0
72.5°	751.3	769.0	936.5	1202.9	1497.4	1976.1	6236.3	14114.7	16231.2	16646.4	11972.1
75°	590.0	603.5	678.5	917.8	1179.0	1213.3	3346.6	10581.8	13331.1	14121.9	9966.8
77.5°	480.8	490.1	528.6	681.6	909.5	859.5	1755.5	6887.7	8351.8	9147.9	5871.0
80°	381.9	392.3	415.2	462.0	681.6	612.9	837.7	3490.2	4034.4	4026.1	2343.4
82.5°	296.6	299.7	326.7	339.2	466.2	435.0	453.7	1477.6	1636.9	1691.0	846.0
85°	187.3	196.7	289.3	260.1	278.9	254.9	223.7	586.9	723.2	712.8	338.2
87.5°	57.2	60.4	97.8	110.3	123.8	111.3	82.2	172.7	211.2	228.9	84.3
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°	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7
2.5°	2337.2	2325.7	2285.2	2251.9	2220.6	2186.3	2157.2	2148.8	2141.5	2138.4	2137.4
5°	2359.0	2324.7	2244.6	2179.0	2127.0	2079.1	2048.9	2035.4	2021.9	2021.9	2026.0
7.5°	2390.3	2327.8	2204.0	2106.2	2040.6	1995.9	1974.0	1971.9	1975.1	1978.2	1979.2
10°	2424.6	2325.7	2144.7	2022.9	1964.6	1943.8	1944.9	1962.6	1979.2	1991.7	1993.8
12.5°	2457.9	2313.2	2074.9	1944.9	1907.4	1911.6	1940.7	1980.3	2012.5	2030.2	2031.2
15°	2495.4	2293.5	1990.7	1871.0	1858.5	1890.8	1944.9	2005.2	2054.1	2083.3	2086.4
17.5°	2526.6	2260.2	1902.2	1799.2	1814.8	1874.1	1949.0	2027.1	2086.4	2122.8	2129.1
20°	2561.9	2217.5	1810.6	1730.5	1775.3	1855.4	1940.7	2025.0	2086.4	2121.8	2130.1
22.5°	2590.0	2157.2	1723.2	1674.3	1739.9	1832.5	1912.6	1980.3	2030.2	2048.9	2061.4
25°	2601.5	2081.2	1641.0	1628.5	1711.8	1795.0	1849.1	1887.6	1903.3	1901.2	1906.4
27.5°	2595.2	1993.8	1570.3	1592.1	1676.4	1736.8	1763.8	1760.7	1732.6	1706.6	1719.1
30°	2569.2	1889.7	1510.9	1554.7	1630.6	1663.9	1659.8	1619.2	1566.1	1517.2	1520.3
32.5°	2522.4	1777.3	1455.8	1512.0	1566.1	1580.7	1552.6	1499.5	1423.5	1360.1	1350.7
35°	2482.9	1670.2	1406.9	1463.1	1501.6	1494.3	1467.2	1398.6	1329.9	1273.7	1264.3
37.5°	2476.6	1578.6	1360.1	1407.9	1429.8	1419.4	1386.1	1327.8	1302.8	1260.2	1255.0
40°	2509.9	1514.1	1312.2	1349.7	1360.1	1351.7	1315.3	1282.0	1304.9	1294.5	1294.5
42.5°	2600.5	1479.7	1269.5	1291.4	1299.7	1305.9	1279.9	1251.8	1279.9	1232.1	1216.5
45°	2744.1	1480.8	1231.0	1234.1	1259.1	1281.0	1263.3	1221.7	1207.1	1111.4	1092.6
47.5°	2955.3	1516.1	1199.8	1180.0	1224.8	1261.2	1236.2	1175.9	1111.4	1047.9	1036.4
50°	3201.9	1579.6	1171.7	1123.8	1179.0	1236.2	1217.5	1146.7	1080.1	1041.6	1034.4
52.5°	3475.6	1659.8	1137.4	1061.4	1122.8	1224.8	1221.7	1142.6	1051.0	1025.0	1018.7
55°	3813.8	1738.8	1094.7	988.6	1072.9	1215.4	1210.2	1108.2	1044.8	1026.0	1023.9
57.5°	4207.1	1853.3	1033.3	914.7	1015.6	1176.9	1165.5	1087.4	1023.9	1010.4	1009.4
60°	4840.9	2031.2	945.9	847.0	957.3	1109.3	1123.8	1052.0	990.6	987.5	986.5
62.5°	5674.4	2281.0	855.4	777.3	889.7	1021.9	1063.5	1004.2	955.3	970.9	973.0
65°	6825.3	2491.2	761.7	718.0	814.8	937.6	1006.3	959.4	915.7	945.9	945.9
67.5°	7575.5	2495.4	676.4	656.6	738.8	866.8	945.9	906.4	864.7	915.7	917.8
70°	7419.5	2186.3	605.6	592.1	664.9	790.9	879.3	848.1	800.2	846.0	829.4
71°	7167.6	2014.6	577.5	567.1	635.8	754.4	848.1	822.1	774.2	804.4	795.0
72.5°	6766.0	1749.2	531.7	533.8	592.1	708.6	804.4	777.3	729.5	746.1	743.0
75°	5719.1	1527.6	454.7	464.1	508.9	630.6	717.0	696.2	647.3	647.3	644.1
77.5°	3575.5	1067.7	377.7	382.9	431.8	540.1	616.0	598.3	551.5	535.9	531.7
80°	1334.0	551.5	295.5	301.8	332.0	425.6	509.9	493.2	445.4	427.7	411.0
82.5°	504.7	276.8	217.5	212.3	244.5	324.7	399.6	379.8	342.4	299.7	287.2
85°	190.4	137.4	133.2	129.0	143.6	192.5	247.7	243.5	204.0	173.8	170.7
87.5°	49.9	44.7	52.0	38.5	40.6	36.4	37.5	15.6	7.3	3.1	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)