

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: P452093

Luminaire Tested: **GALN-SA3A-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452093
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-SA3A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12504 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

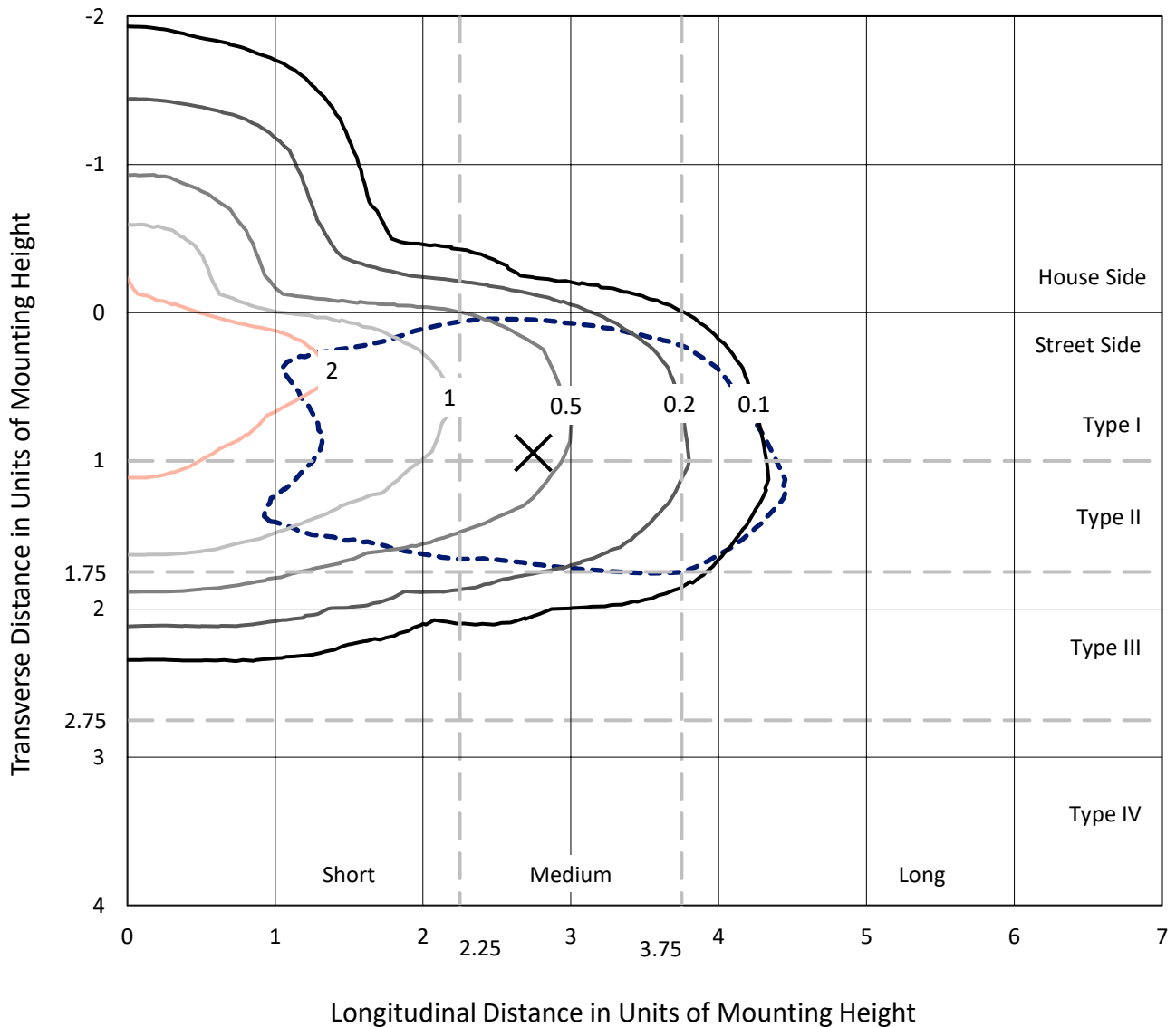
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

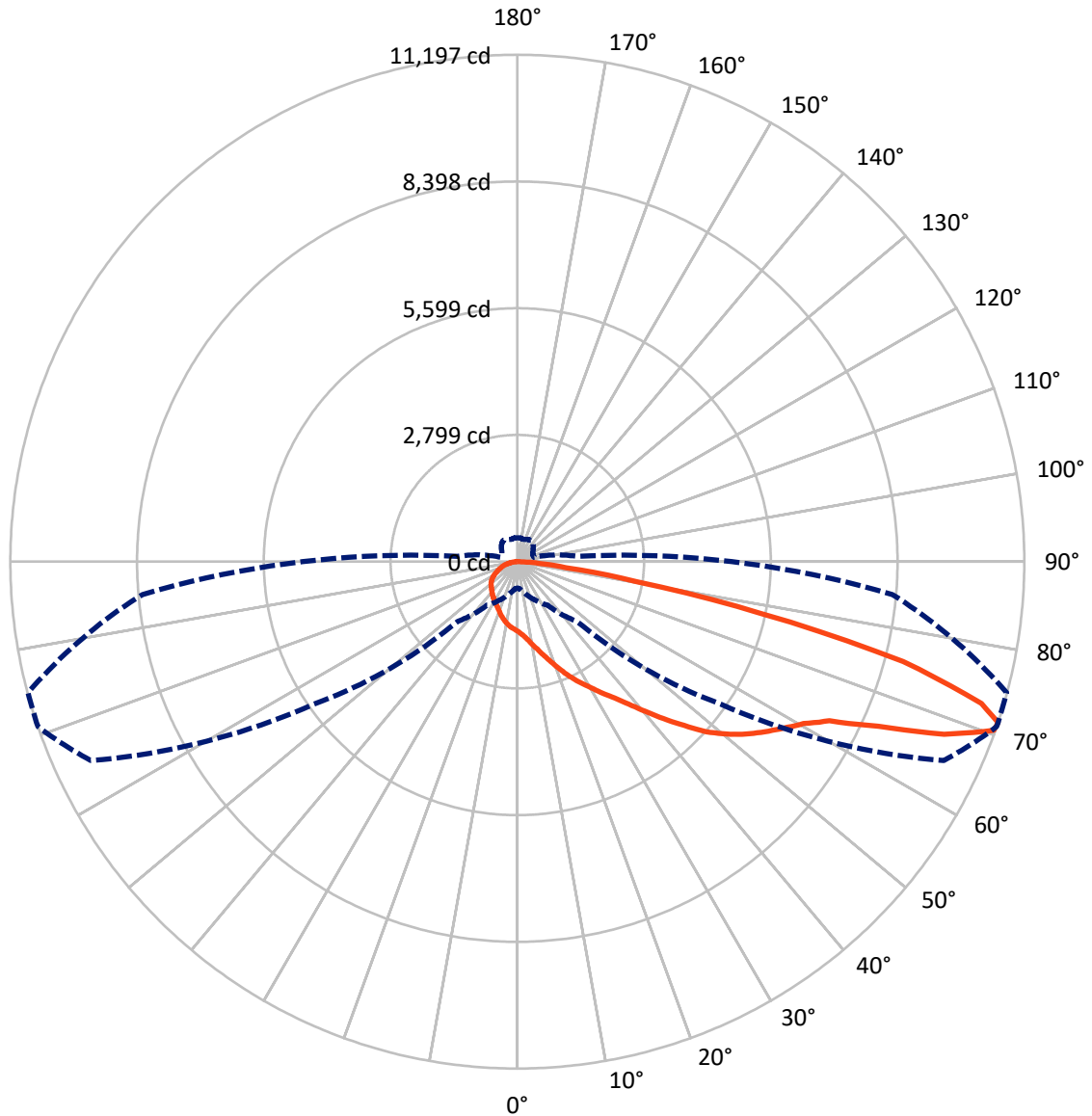
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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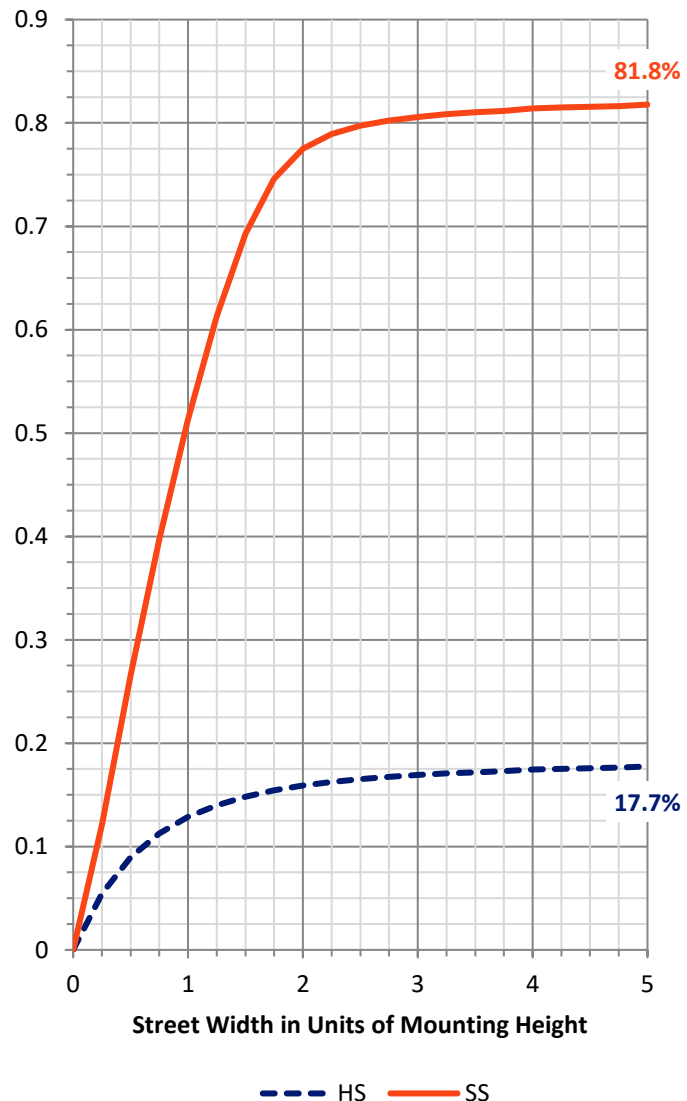
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.8	0.0	2248.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10255.2	0.0	10255.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	12504.0	0.0	12504.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.2
10°-20°	500.6	4.0
20°-30°	874.9	7.0
30°-40°	1301.2	10.4
40°-50°	1917.2	15.3
50°-60°	2684.1	21.5
60°-70°	3002.1	24.0
70°-80°	1833.8	14.7
80°-90°	235.9	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°	12504.0	100.0
0°-180°	12504.0	100.0



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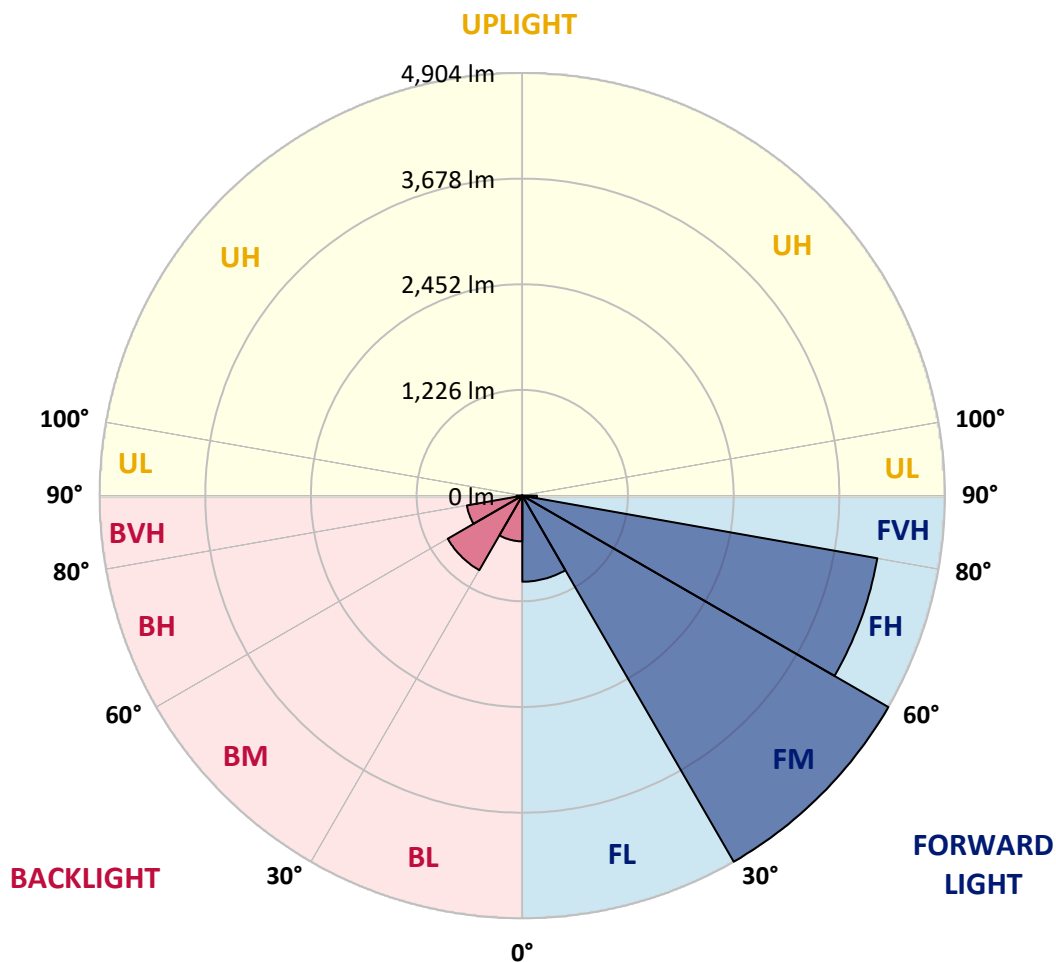
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	999.1	8.0			
FM	(30°-60°)	4903.8	39.2			
FH	(60°-80°)	4182.5	33.4			G2/5000
FVH	(80°-90°)	169.7	1.4			G2/225
BL	(0°-30°)	530.5	4.2	B2/1000		
BM	(30°-60°)	998.8	8.0	B1/1000		
BH	(60°-80°)	653.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	66.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1703.7	1695.4	1696.1	1684.4	1669.3	1652.8	1629.5	1608.8	1592.3	1582.7	1554.5
5°	1887.9	1879.6	1869.3	1843.9	1832.9	1792.3	1740.8	1694.1	1658.3	1638.4	1582.0
7.5°	2037.0	2034.9	2032.2	2017.8	1989.6	1933.2	1889.2	1808.1	1755.2	1717.4	1621.2
10°	2129.1	2132.5	2134.6	2137.3	2125.7	2096.1	2035.6	1933.2	1865.9	1817.8	1672.1
12.5°	2175.8	2179.3	2190.9	2216.4	2232.2	2228.7	2179.3	2078.9	1986.1	1922.9	1726.4
15°	2204.7	2210.2	2230.8	2264.5	2317.4	2351.1	2327.0	2234.2	2132.5	2057.6	1791.0
17.5°	2236.3	2242.5	2265.2	2313.3	2382.7	2455.5	2481.6	2401.9	2291.3	2201.9	1863.1
20°	2254.2	2262.4	2294.7	2357.9	2439.0	2544.9	2631.5	2589.5	2468.6	2369.6	1946.3
22.5°	2283.0	2289.9	2317.4	2384.7	2481.6	2614.3	2781.3	2772.3	2665.8	2538.0	2037.7
25°	2361.4	2372.4	2386.1	2426.7	2520.1	2685.1	2905.7	2967.5	2856.9	2713.9	2121.5
27.5°	2509.1	2518.1	2517.4	2522.9	2575.8	2746.2	3013.6	3160.6	3046.6	2891.9	2202.6
30°	2677.5	2680.9	2683.7	2671.3	2683.0	2808.8	3112.5	3351.7	3237.6	3074.7	2273.4
32.5°	2882.3	2889.2	2865.8	2834.2	2824.6	2901.6	3194.3	3542.8	3463.7	3260.3	2343.5
35°	3124.2	3142.1	3094.7	3039.0	2999.8	3034.9	3304.3	3737.9	3695.3	3497.4	2436.3
37.5°	3400.5	3422.5	3378.5	3269.2	3213.6	3223.2	3447.9	3979.2	3988.1	3767.5	2574.4
40°	3626.6	3655.5	3656.8	3502.2	3417.7	3428.7	3630.0	4238.9	4341.3	4101.5	2737.3
42.5°	3775.7	3803.9	3833.5	3742.7	3654.1	3716.6	3842.4	4520.7	4738.6	4507.0	2964.8
45°	3939.3	3964.7	3981.2	3940.0	3890.5	4052.7	4098.7	4820.3	5161.9	4959.9	3213.6
47.5°	4129.0	4157.1	4173.0	4133.8	4115.2	4347.5	4375.0	5100.0	5614.1	5399.7	3488.5
50°	4381.9	4403.2	4394.9	4370.2	4366.1	4573.6	4640.3	5361.9	5987.3	5873.2	3773.7
52.5°	4696.6	4722.1	4731.0	4695.9	4680.1	4735.1	4854.0	5600.4	6326.8	6280.1	4078.1
55°	4887.0	4927.6	5063.6	5118.6	5156.4	4944.0	5084.2	5863.6	6631.2	6708.9	4405.2
57.5°	4643.0	4695.3	4999.7	5274.6	5629.9	5466.4	5410.7	6138.5	6935.7	7124.7	4797.0
60°	4047.9	4059.6	4452.0	4958.5	5673.2	6137.8	6091.7	6575.6	7265.6	7543.9	5313.1
62.5°	2808.1	2832.8	3296.7	4104.9	5138.5	6379.7	7250.4	7330.2	7738.4	8171.3	6069.8
65°	1448.0	1415.7	1838.4	2579.9	3874.0	5805.2	8189.2	8717.7	8763.8	9152.7	7135.0
67.5°	891.4	905.8	1103.7	1506.4	2290.6	4219.0	8090.9	10413.1	10170.5	10357.5	8123.9
70°	669.4	687.2	823.3	1030.9	1396.5	2412.2	6506.8	10824.1	11162.9	11114.8	8424.9
71°	582.1	600.7	742.2	938.1	1173.1	1861.7	5482.2	10393.9	11197.3	11189.0	8311.5
72.5°	496.2	507.9	618.5	794.5	988.9	1305.1	4118.7	9321.8	10719.7	10993.9	7906.8
75°	389.7	398.6	448.1	606.2	778.6	801.3	2210.2	6988.6	8804.3	9326.6	6582.4
77.5°	317.5	323.7	349.1	450.1	600.7	567.7	1159.4	4548.9	5515.8	6041.6	3877.4
80°	252.2	259.1	274.2	305.1	450.1	404.8	553.2	2305.0	2664.5	2659.0	1547.7
82.5°	195.9	197.9	215.8	224.0	307.9	287.3	299.6	975.9	1081.0	1116.8	558.7
85°	123.7	129.9	191.1	171.8	184.2	168.4	147.8	387.6	477.6	470.8	223.4
87.5°	37.8	39.9	64.6	72.8	81.8	73.5	54.3	114.1	139.5	151.2	55.7
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°	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1543.6	1536.0	1509.2	1487.2	1466.6	1443.9	1424.7	1419.2	1414.4	1412.3	1411.6
5°	1558.0	1535.3	1482.4	1439.1	1404.7	1373.1	1353.2	1344.3	1335.3	1335.3	1338.1
7.5°	1578.6	1537.4	1455.6	1391.0	1347.7	1318.1	1303.7	1302.3	1304.4	1306.5	1307.1
10°	1601.3	1536.0	1416.4	1336.0	1297.5	1283.8	1284.5	1296.1	1307.1	1315.4	1316.8
12.5°	1623.3	1527.7	1370.4	1284.5	1259.7	1262.5	1281.7	1307.8	1329.1	1340.8	1341.5
15°	1648.0	1514.7	1314.7	1235.7	1227.4	1248.7	1284.5	1324.3	1356.6	1375.9	1377.9
17.5°	1668.6	1492.7	1256.3	1188.2	1198.6	1237.7	1287.2	1338.8	1377.9	1402.0	1406.1
20°	1692.0	1464.5	1195.8	1142.9	1172.4	1225.4	1281.7	1337.4	1377.9	1401.3	1406.8
22.5°	1710.6	1424.7	1138.1	1105.8	1149.1	1210.2	1263.2	1307.8	1340.8	1353.2	1361.4
25°	1718.1	1374.5	1083.8	1075.5	1130.5	1185.5	1221.2	1246.7	1257.0	1255.6	1259.0
27.5°	1714.0	1316.8	1037.1	1051.5	1107.2	1147.0	1164.9	1162.8	1144.3	1127.1	1135.3
30°	1696.8	1248.0	997.9	1026.7	1076.9	1098.9	1096.2	1069.4	1034.3	1002.0	1004.1
32.5°	1665.9	1173.8	961.5	998.6	1034.3	1043.9	1025.4	990.3	940.2	898.2	892.0
35°	1639.8	1103.0	929.2	966.3	991.7	986.9	969.0	923.7	878.3	841.2	835.0
37.5°	1635.6	1042.6	898.2	929.8	944.3	937.4	915.4	876.9	860.4	832.3	828.8
40°	1657.6	999.9	866.6	891.4	898.2	892.7	868.7	846.7	861.8	854.9	854.9
42.5°	1717.4	977.3	838.4	852.9	858.4	862.5	845.3	826.8	845.3	813.7	803.4
45°	1812.3	978.0	813.0	815.1	831.6	846.0	834.3	806.8	797.2	734.0	721.6
47.5°	1951.8	1001.3	792.4	779.3	808.9	832.9	816.4	776.6	734.0	692.1	684.5
50°	2114.7	1043.2	773.8	742.2	778.6	816.4	804.1	757.3	713.4	687.9	683.1
52.5°	2295.4	1096.2	751.2	701.0	741.5	808.9	806.8	754.6	694.1	676.9	672.8
55°	2518.8	1148.4	723.0	652.9	708.6	802.7	799.3	731.9	690.0	677.6	676.2
57.5°	2778.5	1224.0	682.4	604.1	670.8	777.3	769.7	718.2	676.2	667.3	666.6
60°	3197.1	1341.5	624.7	559.4	632.3	732.6	742.2	694.8	654.3	652.2	651.5
62.5°	3747.6	1506.4	564.9	513.4	587.6	674.9	702.4	663.2	630.9	641.2	642.6
65°	4507.6	1645.3	503.1	474.2	538.1	619.2	664.6	633.6	604.8	624.7	624.7
67.5°	5003.1	1648.0	446.7	433.7	487.9	572.5	624.7	598.6	571.1	604.8	606.2
70°	4900.1	1443.9	400.0	391.0	439.1	522.3	580.7	560.1	528.5	558.7	547.7
71°	4733.7	1330.5	381.4	374.5	419.9	498.3	560.1	542.9	511.3	531.2	525.1
72.5°	4468.5	1155.3	351.2	352.6	391.0	468.0	531.2	513.4	481.8	492.8	490.7
75°	3777.1	1008.9	300.3	306.5	336.1	416.5	473.5	459.8	427.5	427.5	425.4
77.5°	2361.4	705.1	249.5	252.9	285.2	356.7	406.8	395.2	364.2	353.9	351.2
80°	881.0	364.2	195.2	199.3	219.2	281.1	336.8	325.8	294.1	282.5	271.5
82.5°	333.3	182.8	143.6	140.2	161.5	214.4	263.9	250.8	226.1	197.9	189.7
85°	125.8	90.7	88.0	85.2	94.8	127.1	163.6	160.8	134.7	114.8	112.7
87.5°	33.0	29.6	34.4	25.4	26.8	24.1	24.7	10.3	4.8	2.1	1.4
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)