

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: P526088

Luminaire Tested: **GALN-SA1A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3679 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

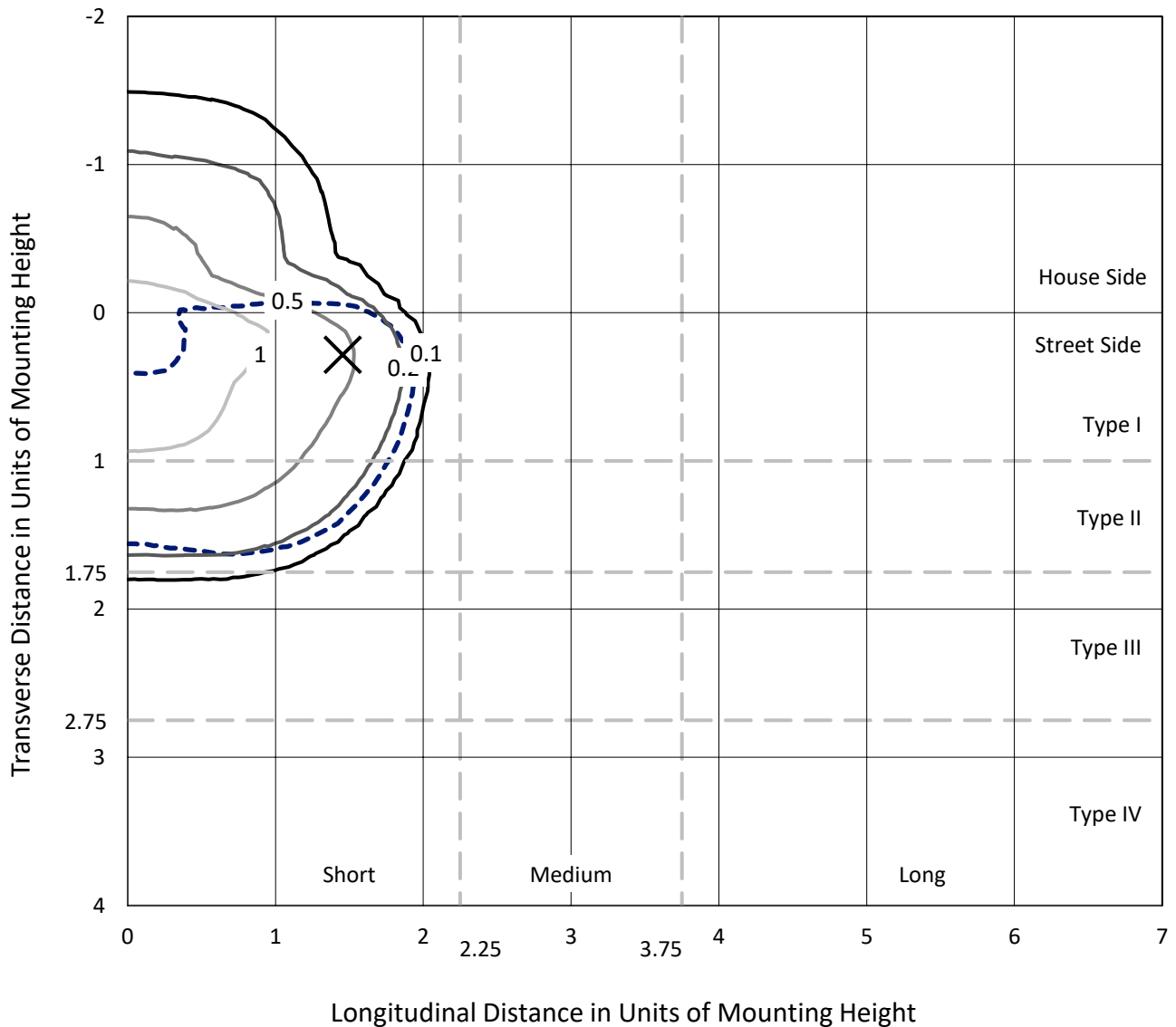
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

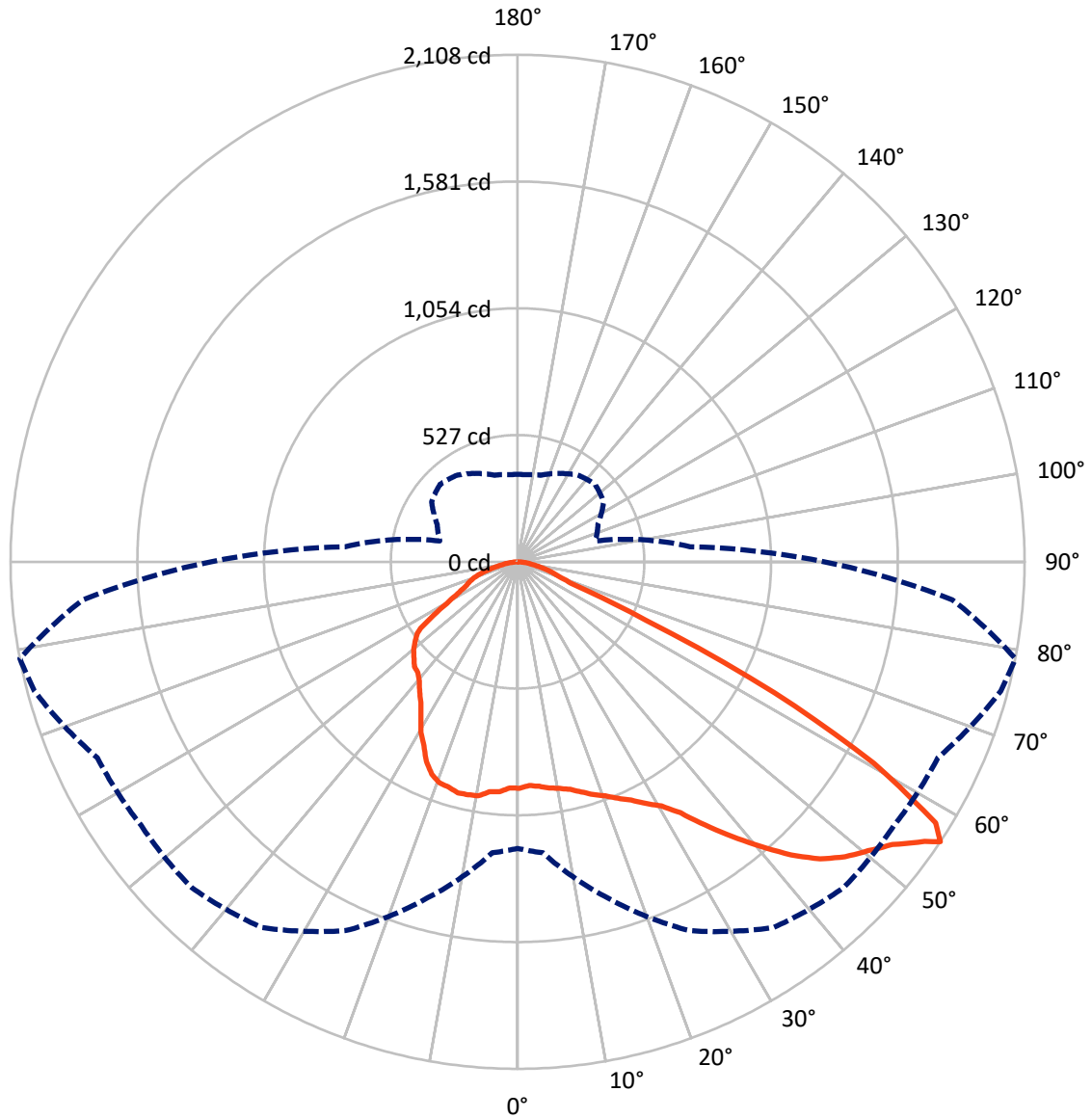
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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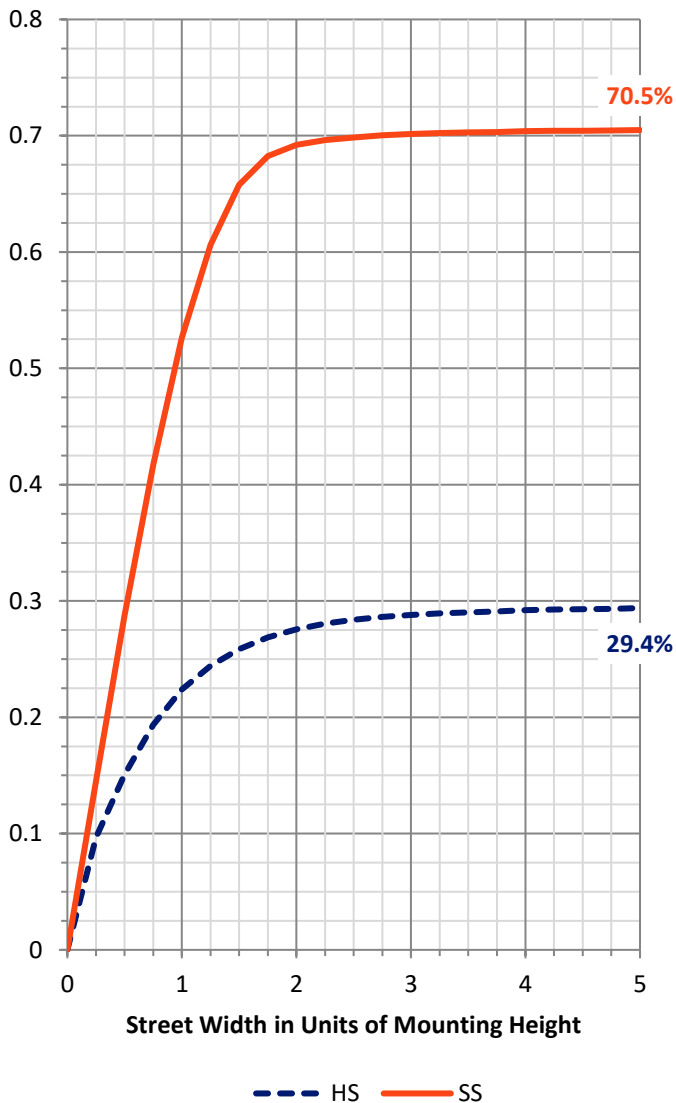
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1086.5	0.0	1086.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2592.5	0.0	2592.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	3679.0	0.0	3679.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	2.3
10°-20°	234.2	6.4
20°-30°	400.7	10.9
30°-40°	614.1	16.7
40°-50°	830.0	22.6
50°-60°	953.3	25.9
60°-70°	434.5	11.8
70°-80°	107.1	2.9
80°-90°	19.5	0.5
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°	3679.0	100.0
0°-180°	3679.0	100.0

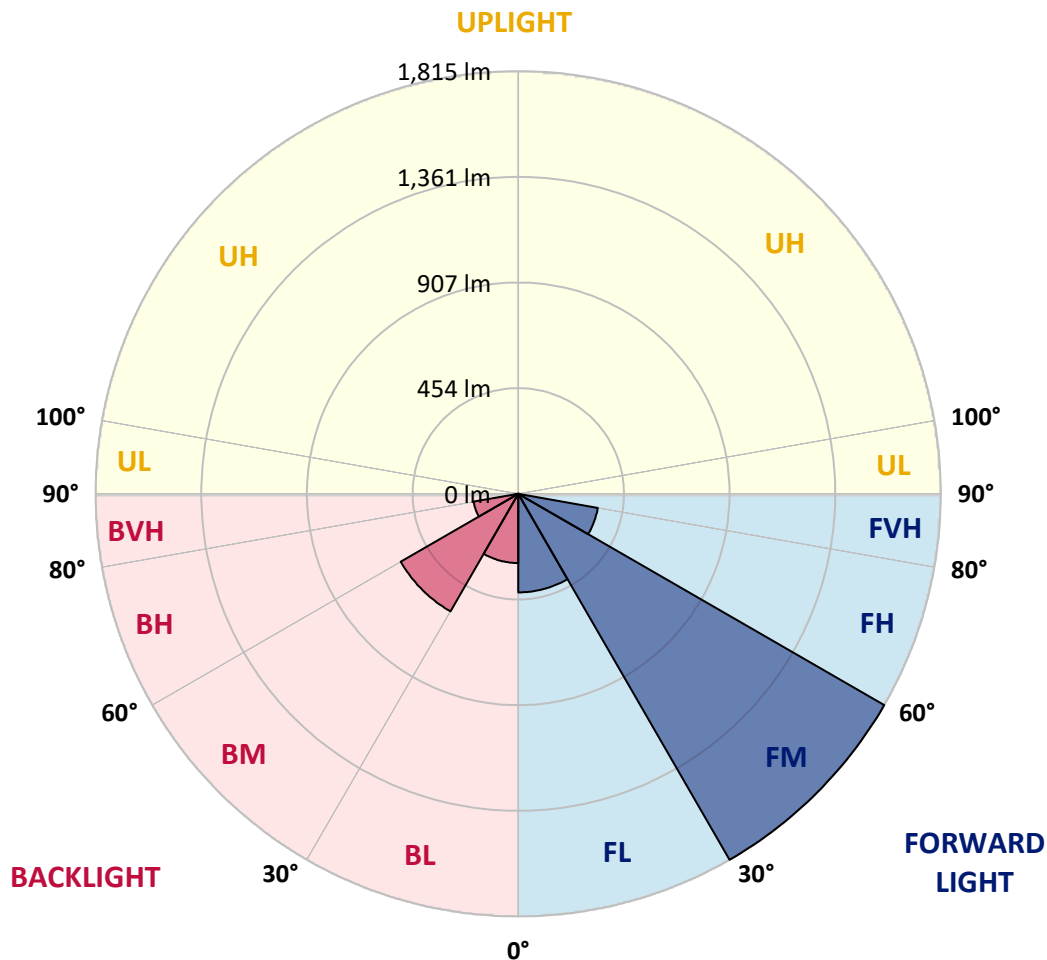


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.3	11.5			
FM (30°-60°)	1814.6	49.3			
FH (60°-80°)	346.8	9.4			G0/660
FVH (80°-90°)	7.8	0.2			G0/10
BL (0°-30°)	297.2	8.1	B1/500		
BM (30°-60°)	582.8	15.8	B1/1000		
BH (60°-80°)	194.8	5.3	B1/500		G1/500
BVH (80°-90°)	11.7	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	895.5	893.2	898.7	902.8	907.9	914.3	917.5	919.3	935.4	931.2	943.6
5°	876.2	870.3	874.4	877.6	886.3	894.1	902.8	916.6	931.2	937.6	952.8
7.5°	859.3	856.1	855.2	857.4	869.4	879.4	894.6	914.7	938.6	949.1	957.8
10°	831.3	826.7	833.6	848.7	851.9	873.0	890.4	919.3	939.9	958.3	983.9
12.5°	818.9	814.4	815.7	824.4	846.9	867.1	887.7	920.2	963.8	971.1	1005.5
15°	838.7	834.1	835.4	833.2	854.7	865.2	897.8	938.6	980.3	992.6	1029.3
17.5°	883.6	884.0	878.1	873.0	868.0	890.4	912.9	949.6	986.7	1017.8	1045.3
20°	969.3	954.1	942.2	913.8	906.0	915.6	944.1	979.3	1012.8	1038.5	1069.6
22.5°	1035.3	1036.6	1019.7	972.9	956.0	960.1	984.4	1013.3	1049.9	1068.3	1104.0
25°	1131.0	1121.4	1103.1	1066.0	1027.9	1031.1	1049.0	1075.1	1085.2	1098.0	1137.0
27.5°	1218.6	1221.3	1185.1	1150.3	1103.1	1093.9	1126.0	1130.6	1113.6	1137.9	1151.2
30°	1307.5	1305.2	1281.4	1240.6	1194.3	1196.1	1210.3	1187.9	1164.5	1177.8	1186.9
32.5°	1399.6	1373.5	1372.6	1335.9	1300.6	1283.6	1266.2	1277.2	1241.0	1243.8	1235.1
35°	1473.4	1477.0	1456.0	1429.8	1412.4	1382.6	1335.0	1354.7	1347.8	1344.6	1307.0
37.5°	1527.0	1512.8	1523.3	1514.6	1498.1	1461.0	1411.5	1430.3	1433.5	1449.1	1405.5
40°	1571.0	1565.0	1593.0	1597.6	1586.1	1505.9	1417.0	1472.9	1521.0	1554.9	1503.2
42.5°	1592.1	1604.9	1634.2	1669.5	1643.9	1558.2	1445.4	1505.5	1612.7	1666.3	1595.7
45°	1620.5	1604.0	1647.5	1712.1	1712.6	1602.2	1472.9	1549.5	1684.2	1762.1	1659.0
47.5°	1591.6	1599.9	1644.8	1726.8	1747.9	1648.4	1547.2	1611.8	1763.0	1832.2	1717.6
50°	1527.0	1543.5	1625.5	1710.8	1774.5	1697.5	1632.4	1679.1	1835.9	1888.6	1727.3
52.5°	1459.6	1468.8	1597.1	1723.1	1786.4	1760.7	1746.5	1772.2	1924.8	1952.3	1739.2
55°	1276.3	1319.9	1503.2	1717.6	1844.6	1874.8	1863.8	1901.4	2025.6	2053.1	1804.3
56°	1191.5	1214.4	1446.8	1692.0	1856.0	1916.5	1911.0	1928.0	2079.2	2108.1	1814.3
57.5°	1034.8	1036.6	1233.7	1578.3	1813.0	1928.9	1923.4	1936.7	2068.7	2049.0	1725.9
60°	647.6	676.0	839.6	1214.0	1541.7	1789.6	1820.8	1714.0	1744.2	1702.5	1342.8
62.5°	335.5	331.3	440.0	709.9	1023.3	1281.4	1310.2	1305.2	1258.4	1197.5	877.2
65°	167.3	168.2	230.1	351.5	524.3	670.9	751.6	760.3	636.1	585.2	416.1
67.5°	121.4	126.0	165.4	214.9	247.0	276.3	338.7	332.3	251.6	239.2	221.8
70°	94.4	98.5	134.3	164.1	148.9	148.9	162.2	167.7	179.2	184.2	190.2
72.5°	68.7	72.0	102.7	113.2	97.6	104.9	121.4	134.3	146.2	148.0	154.9
75°	47.2	50.0	67.4	62.3	58.7	72.4	88.9	100.8	109.5	114.1	118.2
77.5°	30.7	31.6	38.5	32.5	37.6	46.7	57.7	67.8	76.5	80.2	81.1
80°	13.7	15.1	16.5	20.6	26.1	33.5	41.2	49.5	55.0	56.4	59.1
82.5°	7.8	7.8	10.1	14.7	19.2	24.3	29.8	35.7	42.2	43.5	43.1
85°	4.1	4.1	6.0	8.7	11.9	14.2	13.7	14.2	15.1	17.4	17.0
87.5°	1.4	1.4	1.8	1.8	2.3	2.7	2.3	3.2	4.1	4.1	4.1
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°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	939.9	944.1	938.6	950.5	950.5	948.2	936.7	940.4	943.1	943.1	945.4
5°	957.8	956.4	960.1	945.9	937.2	934.0	915.2	906.0	898.2	897.8	890.9
7.5°	967.9	964.2	962.8	952.3	913.8	890.4	850.1	826.7	821.7	803.8	810.7
10°	983.9	990.8	983.9	926.6	873.0	819.4	780.0	743.8	729.6	718.1	711.3
12.5°	1016.9	1013.7	973.8	896.4	821.2	757.5	698.9	660.8	646.6	636.6	635.6
15°	1044.9	1028.8	967.9	848.7	740.6	672.8	624.6	597.6	591.2	592.1	596.2
17.5°	1054.5	1043.5	936.7	799.2	680.5	600.8	578.4	574.2	580.2	587.1	588.9
20°	1069.6	1052.2	923.9	731.9	606.3	555.9	554.5	569.2	580.2	590.3	591.6
22.5°	1101.3	1057.3	882.2	668.2	555.4	542.6	555.9	568.3	585.2	593.5	586.1
25°	1110.4	1046.3	823.5	591.6	523.4	534.4	548.6	565.5	577.4	582.0	585.2
27.5°	1118.2	1029.3	744.2	540.8	513.3	533.9	548.6	562.8	569.2	573.3	577.0
30°	1140.2	1024.3	675.5	506.9	506.9	524.7	543.5	547.2	555.9	560.9	567.4
32.5°	1151.2	989.4	604.9	485.3	500.4	529.3	530.7	537.6	538.0	542.1	535.3
35°	1180.1	964.7	539.4	469.7	503.2	524.7	531.6	527.5	505.0	494.0	496.3
37.5°	1201.2	952.3	492.2	467.9	503.7	529.8	533.4	502.3	478.9	460.6	465.2
40°	1258.0	921.6	456.4	464.7	507.8	535.3	525.2	491.3	449.1	430.3	427.1
42.5°	1301.5	899.6	434.0	461.0	511.0	543.1	521.1	469.3	426.2	408.8	413.4
45°	1351.9	894.6	422.1	461.9	516.5	547.2	516.0	452.3	406.5	399.6	398.2
47.5°	1369.8	858.4	409.2	454.2	515.1	545.8	499.1	439.5	399.2	400.1	403.7
50°	1340.0	821.2	399.6	438.1	505.9	533.4	472.5	422.5	395.0	406.5	412.9
52.5°	1302.0	783.2	379.9	416.6	487.2	514.2	460.1	421.6	390.9	387.2	388.6
55°	1313.4	752.0	352.4	387.2	456.9	478.4	446.4	412.9	380.8	367.1	371.7
56°	1276.3	720.0	334.5	368.9	436.3	455.5	439.5	405.1	372.6	363.4	363.4
57.5°	1171.4	612.3	311.2	339.6	392.7	415.7	426.2	400.5	363.4	347.4	347.8
60°	863.9	435.4	279.1	299.3	325.4	343.7	392.7	387.7	340.5	329.5	325.4
62.5°	532.5	318.0	256.2	264.0	277.3	292.4	342.8	351.0	316.2	304.3	301.5
65°	298.3	243.3	238.8	242.0	248.4	256.2	284.6	302.9	279.1	260.8	259.8
67.5°	218.1	217.7	221.4	224.1	226.8	226.8	233.7	241.1	237.8	223.2	221.8
70°	193.9	195.2	198.0	198.4	199.4	196.1	190.6	188.4	192.0	182.9	181.0
72.5°	159.9	164.5	167.7	168.2	163.1	159.0	151.7	143.9	141.2	139.3	138.9
75°	122.8	126.0	127.4	126.9	125.1	119.2	110.4	102.7	97.6	92.1	94.9
77.5°	82.9	87.5	89.8	89.8	87.1	77.9	73.8	67.8	62.8	56.8	57.7
80°	58.2	61.4	65.1	64.6	60.0	55.5	49.5	44.0	39.9	35.3	34.8
82.5°	43.5	45.4	47.2	46.3	43.1	38.5	34.4	29.3	24.7	21.5	21.5
85°	15.6	17.0	20.6	21.5	23.4	23.4	19.7	16.5	13.3	11.0	11.0
87.5°	4.6	4.6	5.0	5.0	4.6	5.0	4.1	4.6	5.0	3.2	3.2
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)