

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: P526307

Luminaire Tested: **GALN-SA1B-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3061 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

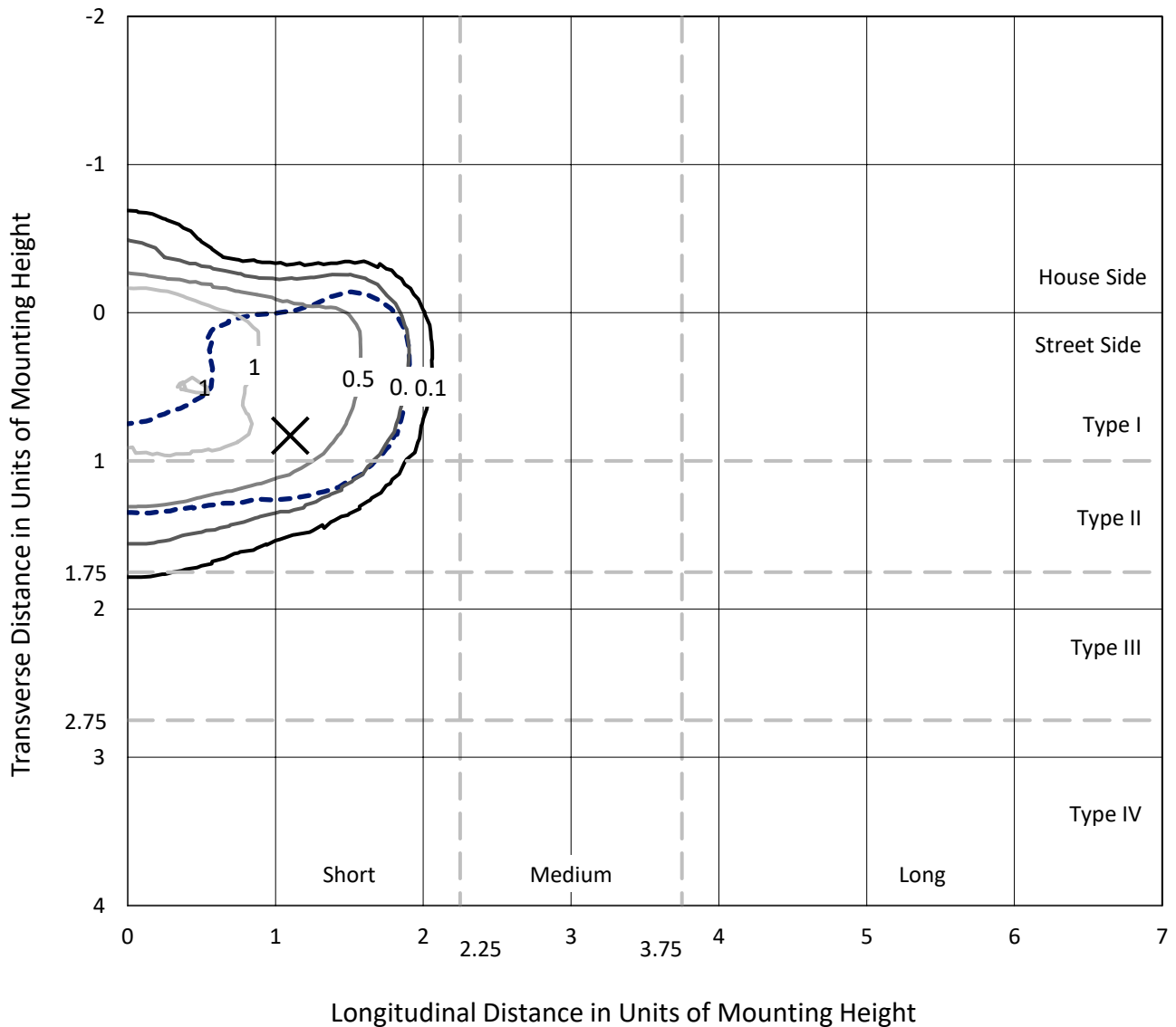
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

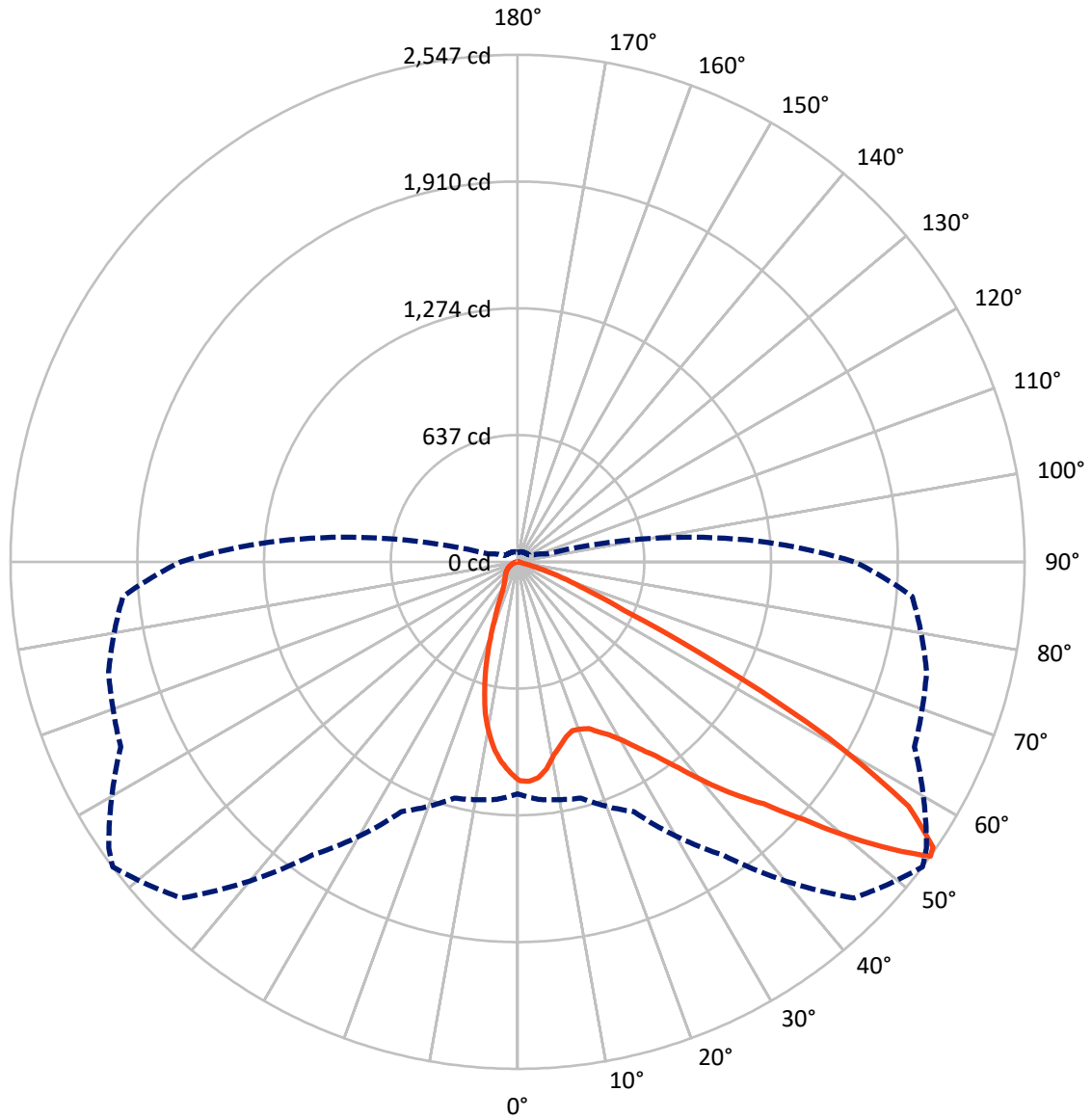
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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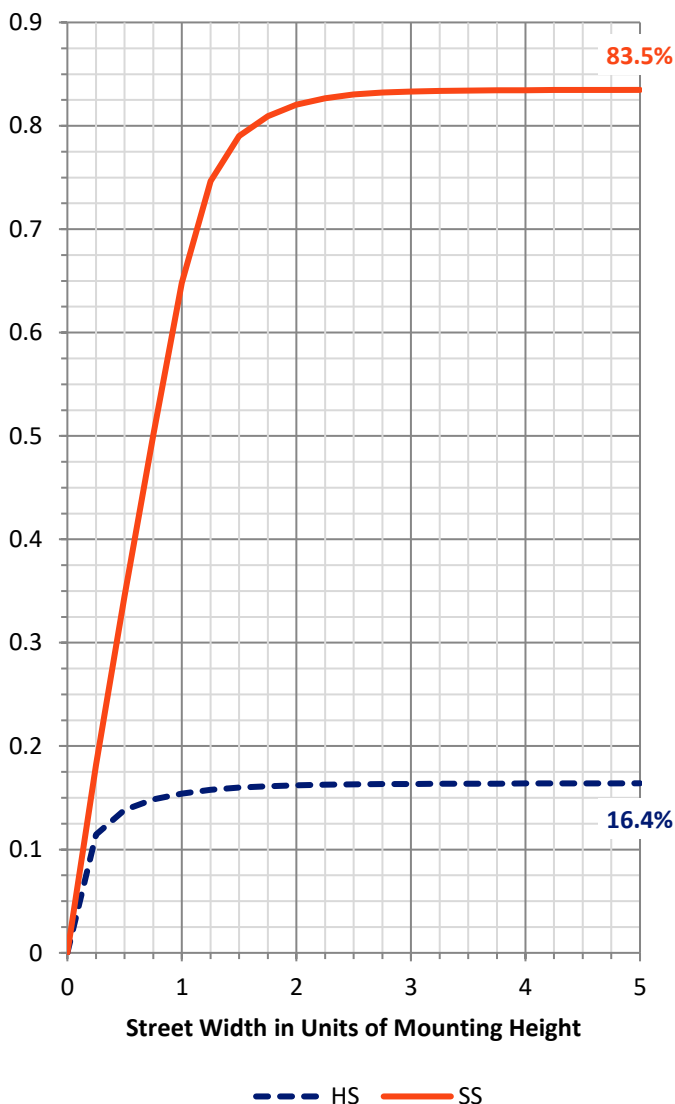
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.5	0.0	506.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2554.6	0.0	2554.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	3061.0	0.0	3061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	3.1
10°-20°	216.3	7.1
20°-30°	307.4	10.0
30°-40°	474.4	15.5
40°-50°	743.7	24.3
50°-60°	864.0	28.2
60°-70°	326.5	10.7
70°-80°	31.0	1.0
80°-90°	3.5	0.1
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°	3061.0	100.0
0°-180°	3061.0	100.0

Coefficient of Utilization

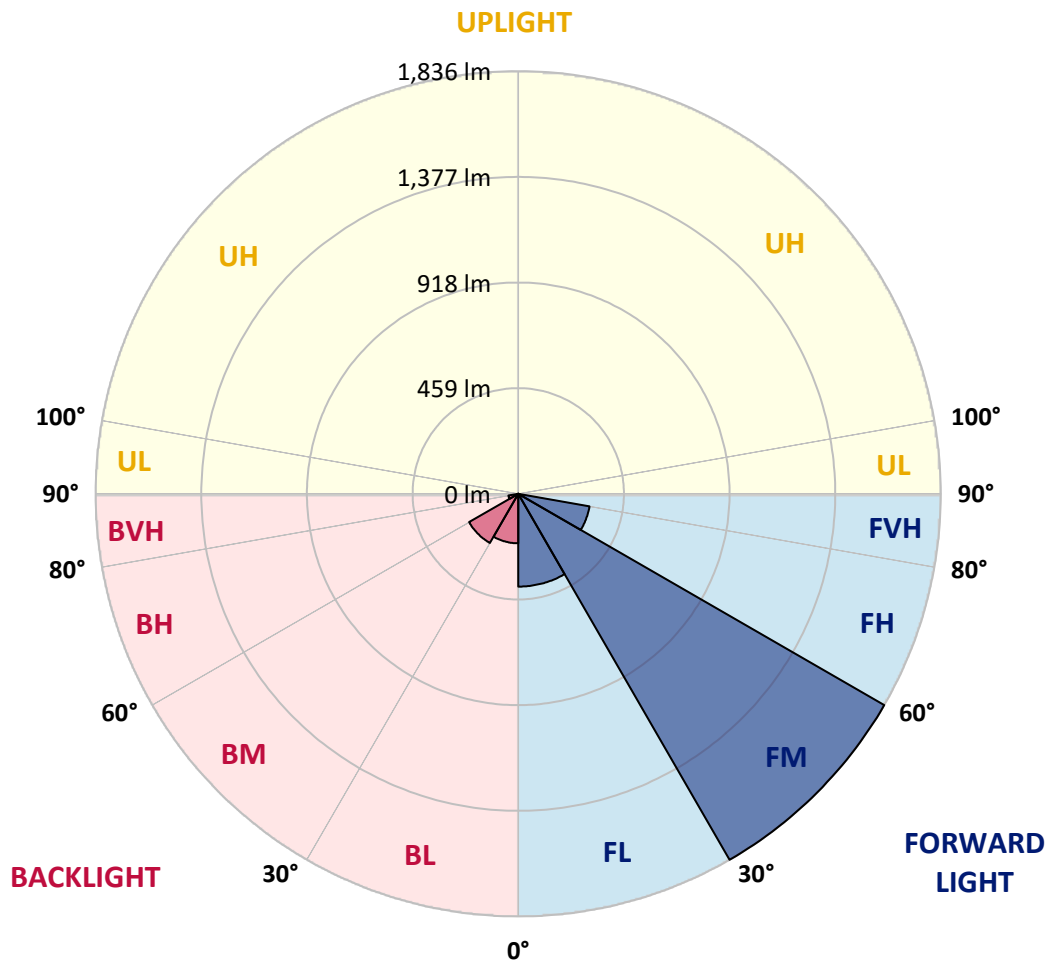


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.1	13.2			
FM (30°-60°)	1835.6	60.0			
FH (60°-80°)	314.1	10.3			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	214.9	7.0	B1/500		
BM (30°-60°)	246.5	8.1	B1/1000		
BH (60°-80°)	43.4	1.4	B0/110		G0/110
BVH (80°-90°)	1.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	1093.8	1084.1	1093.8	1094.9	1101.7	1108.0	1104.0	1113.1	1108.0	1102.3	1100.6
5°	1005.4	1018.5	1019.1	1039.6	1035.0	1072.7	1089.2	1084.6	1112.6	1110.9	1106.9
7.5°	926.1	921.0	927.8	951.8	982.0	1025.3	1049.3	1048.7	1088.6	1117.1	1114.3
10°	852.5	852.0	866.2	885.0	910.7	956.3	989.4	1005.9	1068.1	1111.4	1117.7
12.5°	802.9	800.6	816.0	831.4	871.9	907.3	949.5	957.5	1028.7	1091.5	1101.7
15°	770.4	775.6	776.7	806.3	832.0	878.8	911.8	928.4	1010.5	1075.5	1114.9
17.5°	764.7	771.6	772.1	796.7	824.0	863.4	892.5	914.7	995.1	1083.5	1115.4
20°	776.1	772.1	775.6	790.9	817.8	855.4	897.6	905.0	990.0	1087.5	1121.7
22.5°	808.6	807.5	798.9	811.5	830.3	869.6	909.6	921.0	1004.8	1108.0	1126.8
25°	844.6	850.8	842.8	841.1	854.2	893.0	946.1	960.9	1054.4	1145.1	1142.8
27.5°	911.8	905.6	905.6	897.6	894.2	913.0	985.4	1009.9	1109.7	1193.0	1161.0
30°	976.3	983.1	978.0	980.8	958.0	956.3	1041.3	1071.5	1207.8	1266.0	1199.8
32.5°	1078.4	1069.2	1077.8	1070.4	1040.2	1009.4	1117.1	1148.5	1326.4	1349.8	1258.0
35°	1163.3	1159.3	1195.8	1194.7	1145.7	1115.4	1197.5	1244.3	1409.1	1450.2	1326.4
37.5°	1284.2	1276.8	1318.4	1338.4	1294.5	1249.4	1312.7	1366.9	1486.1	1530.6	1396.6
40°	1408.5	1427.4	1483.2	1516.3	1469.6	1409.7	1453.6	1470.1	1537.4	1583.0	1444.5
42.5°	1565.9	1593.3	1650.3	1678.8	1674.9	1609.8	1596.7	1596.2	1574.5	1568.2	1479.8
45°	1717.1	1706.8	1794.6	1856.8	1906.9	1888.1	1734.7	1717.6	1633.2	1590.5	1488.9
47.5°	1783.2	1779.8	1839.7	1950.3	2121.4	2144.7	1935.5	1869.3	1732.4	1684.0	1538.6
50°	1697.7	1715.3	1774.6	1897.3	2159.6	2338.1	2181.8	2092.9	1848.2	1798.0	1656.0
52.5°	1418.2	1430.2	1486.7	1642.3	2029.6	2452.1	2417.9	2366.6	2060.9	1977.7	1860.8
54°	1166.2	1198.1	1228.9	1385.2	1798.0	2388.8	2547.3	2508.0	2199.5	2127.1	1989.6
55°	1015.6	1034.5	1056.7	1212.4	1637.8	2281.6	2532.5	2535.9	2292.4	2173.8	2076.3
57.5°	741.9	755.0	732.2	801.2	1124.6	1852.8	2316.4	2408.8	2417.9	2244.0	2129.3
60°	566.8	572.5	546.9	557.7	699.1	1271.7	1791.8	1903.0	2181.2	1961.1	1803.7
62.5°	439.7	440.8	440.2	459.1	481.9	748.2	1120.6	1219.2	1503.8	1392.6	1224.9
65°	323.9	318.8	327.9	384.9	411.2	470.5	590.2	662.1	817.2	690.0	493.3
67.5°	209.9	211.6	220.7	286.3	352.4	361.0	363.3	357.6	358.1	197.3	123.7
70°	126.0	128.9	126.0	162.0	252.1	258.9	236.7	231.0	180.2	46.8	46.2
72.5°	74.7	70.7	63.3	69.6	104.9	125.5	112.9	112.3	70.7	27.4	27.4
75°	31.4	28.5	23.4	21.1	27.9	26.8	26.8	24.0	18.8	18.2	17.1
77.5°	6.3	6.3	4.6	5.1	6.8	8.0	9.7	9.7	11.4	11.4	10.8
80°	0.0	0.6	1.7	3.4	5.1	7.4	8.6	8.6	9.7	9.7	8.0
82.5°	0.0	0.6	1.7	3.4	4.6	6.8	8.6	8.6	9.7	10.3	8.6
85°	0.0	0.6	1.7	2.9	4.6	5.7	5.7	5.1	4.0	3.4	2.3
87.5°	0.0	0.0	0.6	1.1	0.6	1.1	1.1	1.1	1.1	1.1	1.1
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°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	1104.6	1104.0	1090.3	1068.1	1063.0	1044.1	1041.9	1030.5	1036.7	1015.6	1013.4
5°	1095.5	1088.6	1072.1	1057.8	1016.2	986.5	963.2	934.7	918.1	921.0	910.1
7.5°	1108.6	1090.9	1061.8	1012.2	961.5	909.6	881.6	823.5	802.4	771.0	766.4
10°	1094.9	1081.8	1036.7	954.6	884.5	809.8	744.2	679.7	630.7	609.6	605.0
12.5°	1093.8	1070.9	995.7	904.4	802.9	695.7	600.5	520.1	471.6	444.2	438.0
15°	1076.1	1048.7	949.5	826.9	686.6	553.2	449.4	371.8	334.7	318.8	323.3
17.5°	1077.8	1036.7	903.3	744.8	572.0	406.0	306.8	266.9	257.2	261.2	261.2
20°	1076.1	1009.9	847.4	650.1	438.0	281.7	225.3	211.0	217.3	229.8	227.0
22.5°	1067.0	997.4	796.1	550.3	322.2	208.7	180.8	181.3	191.0	206.4	209.9
25°	1073.8	969.4	731.1	449.4	234.9	166.5	156.8	160.8	171.1	182.5	184.8
27.5°	1068.7	949.5	663.2	349.0	171.6	143.1	142.6	147.1	151.7	160.2	160.2
30°	1074.4	931.2	596.5	259.5	141.4	131.2	128.9	132.3	136.9	138.6	138.0
32.5°	1095.5	917.5	519.5	193.9	124.9	119.8	119.8	119.8	119.2	121.5	122.0
35°	1141.7	919.8	451.6	150.0	114.1	110.1	108.3	106.1	104.9	106.1	106.6
37.5°	1191.8	918.7	381.5	127.7	106.1	102.6	98.7	95.2	94.7	95.8	94.1
40°	1214.1	929.5	316.5	114.6	98.7	94.7	88.4	85.5	86.1	87.2	86.1
42.5°	1244.3	932.9	274.3	104.4	91.8	85.5	81.5	78.1	77.6	79.3	78.7
45°	1243.7	913.6	229.8	98.7	85.5	78.7	73.6	70.7	70.7	71.9	72.4
47.5°	1280.2	910.7	197.3	93.5	81.0	74.1	67.9	65.6	65.0	65.0	63.9
50°	1365.2	950.6	172.2	87.8	75.3	69.0	63.9	61.0	58.7	57.6	57.0
52.5°	1531.1	1074.9	152.8	81.0	69.0	63.9	59.3	57.0	54.2	51.3	50.8
54°	1692.0	1203.2	151.7	75.3	63.9	60.4	56.5	55.3	51.9	47.9	46.8
55°	1764.4	1278.0	155.7	70.7	60.4	58.2	54.7	53.6	50.2	45.6	45.1
57.5°	1824.3	1307.0	153.4	58.7	54.7	54.2	51.3	49.6	45.6	39.3	38.2
60°	1468.4	988.3	110.1	51.9	50.2	49.0	46.8	45.6	40.5	33.6	33.1
62.5°	927.8	568.5	70.1	45.6	43.9	42.2	39.3	38.2	33.6	26.8	25.1
65°	395.2	235.5	47.3	40.5	37.6	34.8	32.5	30.8	26.8	20.0	19.4
67.5°	102.6	83.8	39.3	35.4	31.4	27.4	25.7	22.8	18.2	13.7	13.1
70°	46.2	42.2	33.1	29.7	25.1	21.1	18.8	16.0	12.0	9.1	8.6
72.5°	27.4	26.8	25.1	22.2	18.8	16.0	13.7	10.8	8.0	5.1	5.1
75°	17.1	16.5	17.1	15.4	13.1	12.0	10.3	7.4	4.6	2.3	2.3
77.5°	10.3	10.3	10.3	9.7	9.1	9.1	7.4	4.6	2.3	0.6	0.6
80°	8.0	8.0	8.6	8.0	8.0	8.0	6.3	3.4	1.1	0.0	0.0
82.5°	8.0	8.6	9.7	9.1	8.0	6.8	5.7	3.4	1.1	0.0	0.0
85°	2.3	1.7	2.9	4.0	5.7	5.1	4.0	2.9	1.1	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	0.6	0.0	0.0
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)