

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: P650679

Luminaire Tested: **GALN-SA1C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650679
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-SA1C-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA 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: 3491.8 lumens
Efficiency: N/A
Efficacy: 61.3 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

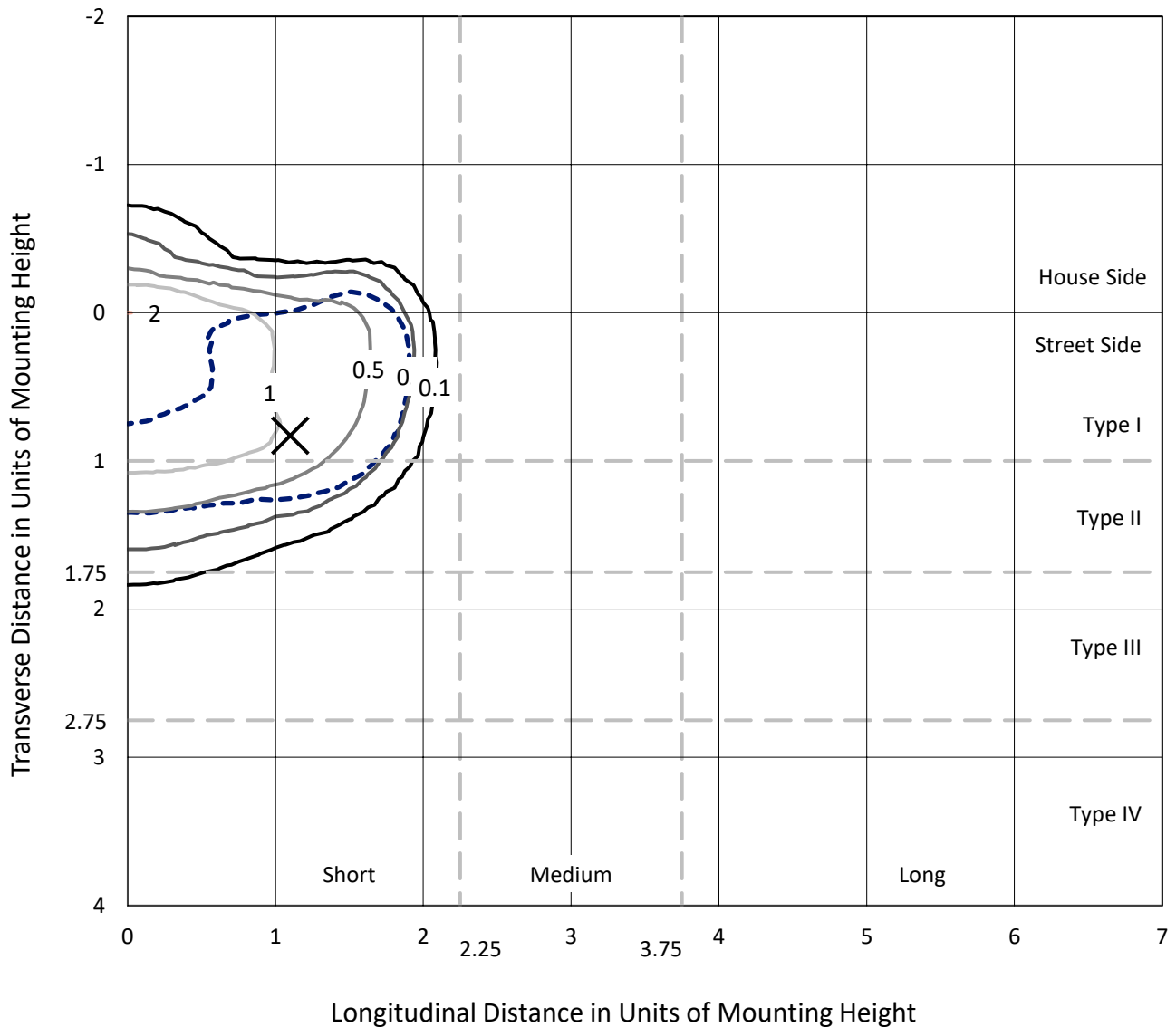
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

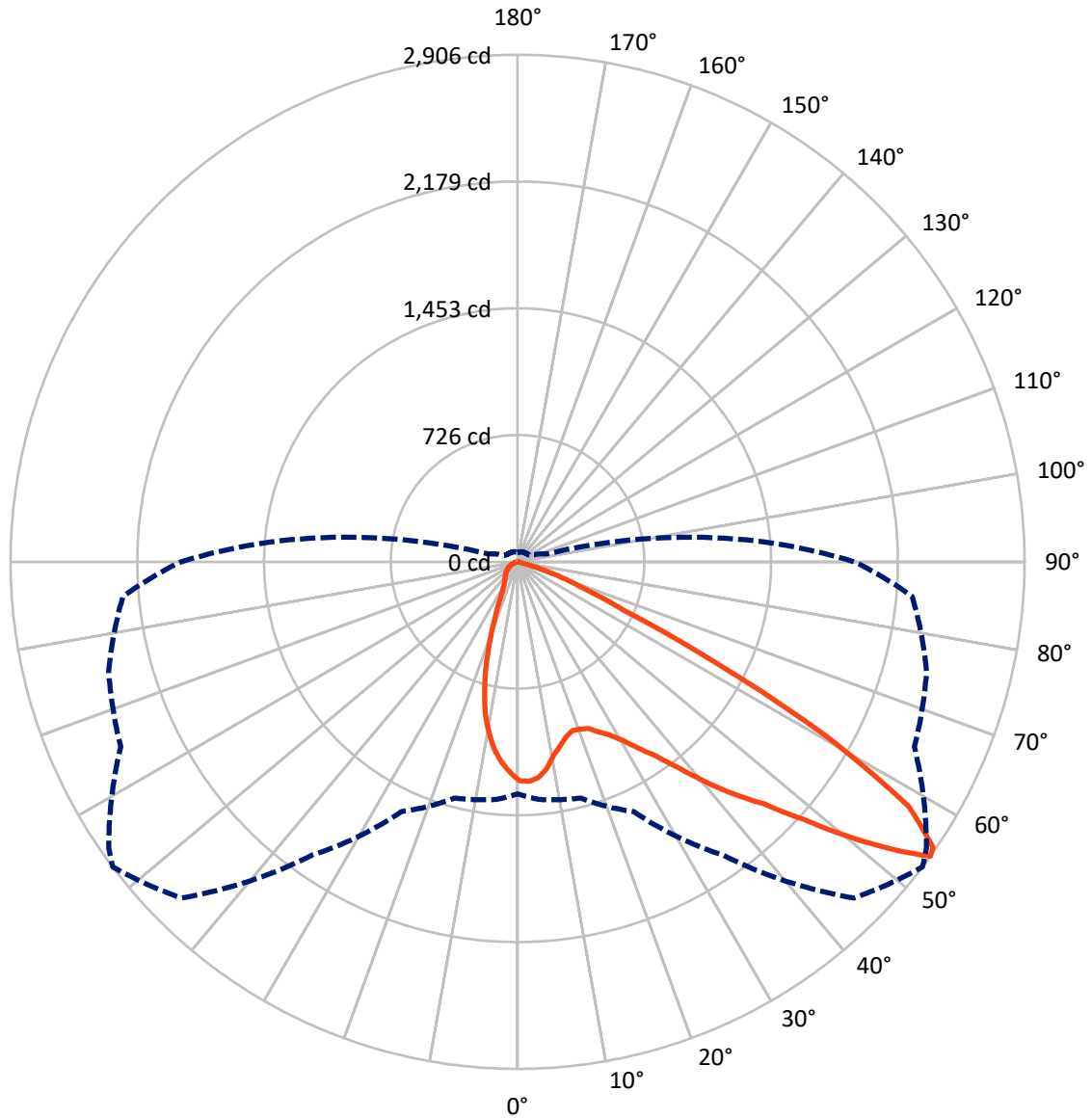
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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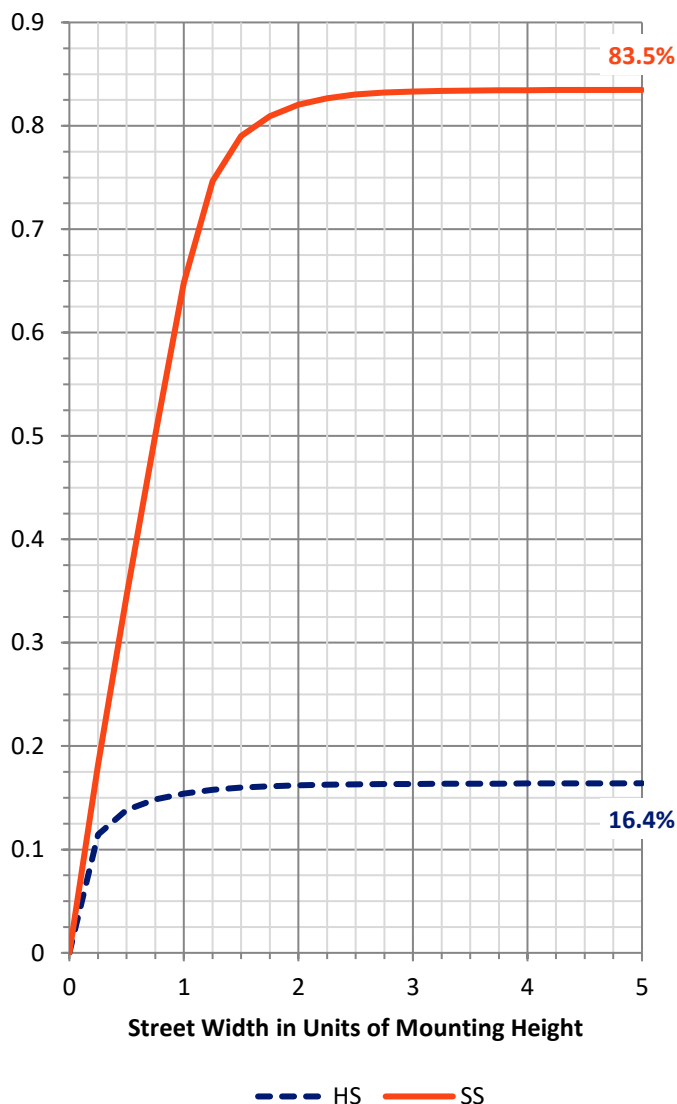
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	577.7	0.0	577.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2914.1	0.0	2914.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	3491.8	0.0	3491.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.1
10°-20°	246.7	7.1
20°-30°	350.6	10.0
30°-40°	541.1	15.5
40°-50°	848.4	24.3
50°-60°	985.6	28.2
60°-70°	372.4	10.7
70°-80°	35.4	1.0
80°-90°	4.0	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°	3491.8	100.0
0°-180°	3491.8	100.0

Coefficient of Utilization

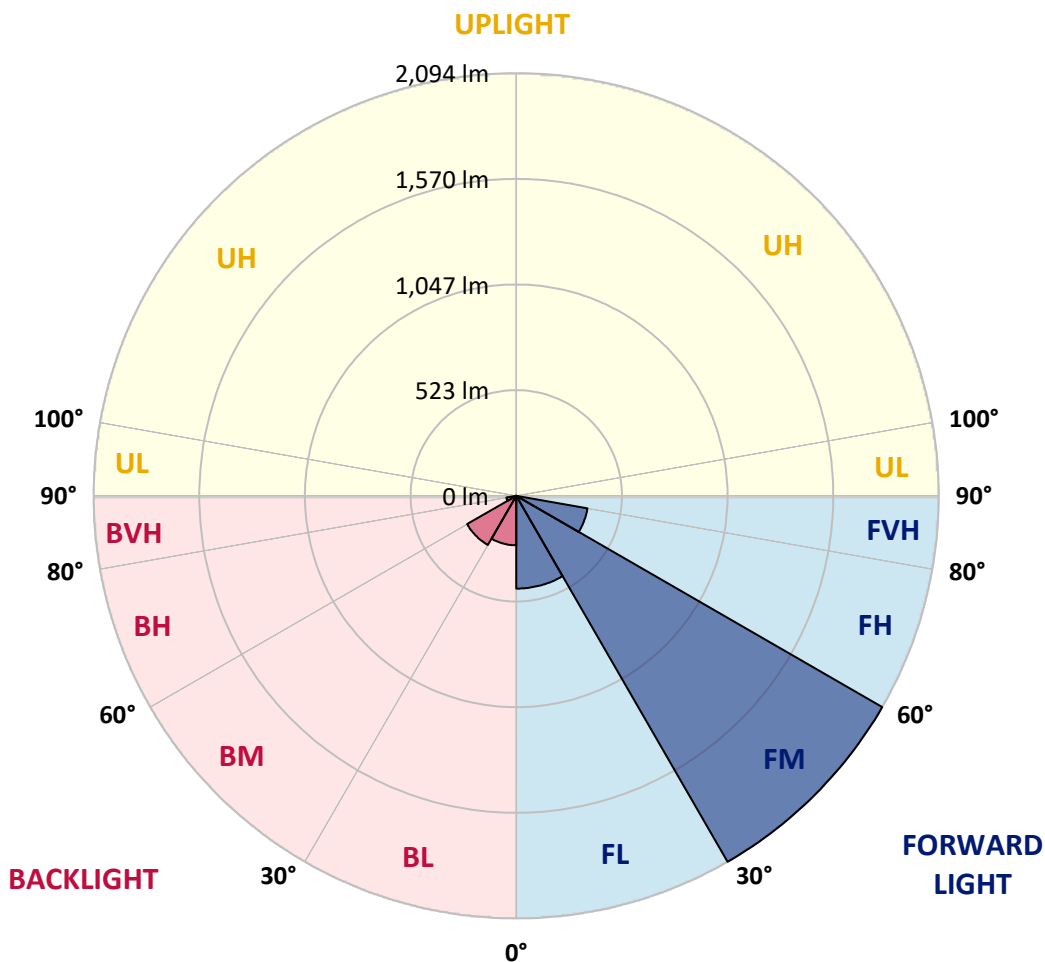


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.8	13.2			
FM (30°-60°)	2093.9	60.0			
FH (60°-80°)	358.3	10.3			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	245.2	7.0	B1/500		
BM (30°-60°)	281.1	8.1	B1/1000		
BH (60°-80°)	49.5	1.4	B0/110		G0/110
BVH (80°-90°)	1.9	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°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1247.7	1236.6	1247.7	1249.0	1256.8	1263.9	1259.4	1269.8	1263.9	1257.5	1255.5
5°	1146.9	1161.8	1162.5	1185.9	1180.7	1223.7	1242.5	1237.3	1269.2	1267.2	1262.7
7.5°	1056.5	1050.6	1058.4	1085.7	1120.2	1169.7	1197.0	1196.3	1241.8	1274.4	1271.1
10°	972.5	971.9	988.2	1009.6	1038.9	1090.9	1128.6	1147.5	1218.4	1267.9	1275.0
12.5°	915.9	913.3	930.9	948.5	994.7	1035.0	1083.1	1092.2	1173.5	1245.1	1256.8
15°	878.8	884.7	886.0	919.8	949.2	1002.5	1040.1	1059.1	1152.8	1226.9	1271.8
17.5°	872.4	880.2	880.8	908.8	940.0	984.9	1018.0	1043.4	1135.2	1236.0	1272.4
20°	885.3	880.8	884.7	902.3	932.8	975.8	1023.9	1032.4	1129.3	1240.6	1279.6
22.5°	922.4	921.1	911.4	925.7	947.1	992.0	1037.5	1050.6	1146.2	1263.9	1285.5
25°	963.4	970.6	961.4	959.5	974.5	1018.7	1079.3	1096.2	1202.8	1306.2	1303.6
27.5°	1040.1	1033.0	1033.0	1023.9	1020.0	1041.5	1124.1	1152.1	1266.0	1360.9	1324.5
30°	1113.7	1121.5	1115.7	1118.9	1092.9	1090.9	1187.8	1222.3	1377.8	1444.2	1368.7
32.5°	1230.1	1219.7	1229.5	1221.0	1186.6	1151.4	1274.4	1310.2	1513.1	1539.8	1435.1
35°	1327.1	1322.5	1364.2	1362.8	1306.9	1272.4	1366.1	1419.4	1607.4	1654.2	1513.1
37.5°	1464.9	1456.5	1504.0	1526.8	1476.7	1425.3	1497.5	1559.3	1695.3	1746.0	1593.1
40°	1606.8	1628.3	1692.0	1729.8	1676.4	1608.1	1658.2	1677.0	1753.8	1805.9	1647.8
42.5°	1786.4	1817.6	1882.6	1915.1	1910.6	1836.4	1821.4	1820.8	1796.1	1789.0	1688.1
45°	1958.7	1947.0	2047.2	2118.1	2175.3	2153.9	1978.9	1959.4	1863.1	1814.3	1698.5
47.5°	2034.2	2030.3	2098.5	2224.8	2420.0	2446.6	2207.9	2132.4	1976.3	1921.0	1755.1
50°	1936.6	1956.8	2024.5	2164.3	2463.5	2667.1	2488.9	2387.4	2108.3	2051.1	1889.1
52.5°	1617.8	1631.5	1695.9	1873.5	2315.2	2797.3	2758.2	2699.7	2351.0	2256.0	2122.7
54°	1330.3	1366.7	1401.9	1580.2	2051.1	2725.0	2905.9	2861.0	2509.0	2426.5	2269.7
55°	1158.6	1180.0	1205.4	1383.0	1868.3	2602.7	2889.0	2892.9	2615.1	2479.8	2368.6
57.5°	846.3	861.3	835.3	914.0	1282.9	2113.5	2642.4	2747.8	2758.2	2559.8	2429.1
60°	646.6	653.1	623.9	636.2	797.5	1450.6	2044.0	2170.8	2488.3	2237.1	2057.6
62.5°	501.6	502.8	502.2	523.7	549.7	853.4	1278.2	1390.8	1715.4	1588.6	1397.3
65°	369.5	363.6	374.1	439.1	469.0	536.6	673.3	755.2	932.2	787.1	562.7
67.5°	239.4	241.4	251.7	326.6	402.0	411.8	414.4	407.9	408.6	225.1	141.2
70°	143.7	147.0	143.7	184.8	287.5	295.4	270.0	263.5	205.5	53.3	52.7
72.5°	85.2	80.7	72.2	79.4	119.7	143.1	128.8	128.2	80.7	31.2	31.2
75°	35.7	32.5	26.7	24.1	31.9	30.6	30.6	27.3	21.4	20.9	19.5
77.5°	7.1	7.1	5.2	5.9	7.8	9.1	11.0	11.0	13.0	13.0	12.4
80°	0.0	0.7	1.9	3.9	5.9	8.5	9.8	9.8	11.0	11.0	9.1
82.5°	0.0	0.7	1.9	3.9	5.2	7.8	9.8	9.8	11.0	11.7	9.8
85°	0.0	0.7	1.9	3.3	5.2	6.5	6.5	5.9	4.5	3.9	2.6
87.5°	0.0	0.0	0.7	1.3	0.7	1.3	1.3	1.3	1.3	1.3	1.3
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°	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1260.1	1259.4	1243.8	1218.4	1212.6	1191.1	1188.5	1175.5	1182.6	1158.6	1156.0
5°	1249.6	1241.8	1223.0	1206.8	1159.2	1125.4	1098.8	1066.2	1047.4	1050.6	1038.2
7.5°	1264.6	1244.4	1211.3	1154.7	1096.7	1037.5	1005.7	939.3	915.3	879.5	874.3
10°	1249.0	1234.0	1182.6	1089.0	1008.9	923.8	848.9	775.4	719.5	695.4	690.2
12.5°	1247.7	1221.7	1135.8	1031.7	915.9	793.7	685.0	593.2	538.0	506.8	499.6
15°	1227.5	1196.3	1083.1	943.3	783.2	631.0	512.6	424.1	381.9	363.6	368.9
17.5°	1229.5	1182.6	1030.4	849.6	652.4	463.1	349.9	304.4	293.4	298.0	298.0
20°	1227.5	1152.1	966.6	741.6	499.6	321.3	256.9	240.7	247.8	262.1	258.9
22.5°	1217.1	1137.8	908.1	627.7	367.5	238.1	206.2	206.9	217.9	235.5	239.4
25°	1224.9	1105.9	833.9	512.6	268.0	190.0	178.9	183.4	195.2	208.1	210.8
27.5°	1219.1	1083.1	756.6	398.1	195.8	163.3	162.6	167.9	173.1	182.8	182.8
30°	1225.6	1062.3	680.5	295.9	161.3	149.6	147.0	151.0	156.1	158.1	157.4
32.5°	1249.6	1046.7	592.7	221.2	142.5	136.6	136.6	136.6	136.0	138.6	139.2
35°	1302.4	1049.3	515.2	171.1	130.1	125.6	123.6	121.0	119.7	121.0	121.6
37.5°	1359.6	1048.0	435.2	145.7	121.0	117.1	112.5	108.7	108.0	109.2	107.3
40°	1385.0	1060.3	361.0	130.8	112.5	108.0	100.8	97.6	98.2	99.5	98.2
42.5°	1419.4	1064.3	312.9	119.1	104.7	97.6	93.0	89.1	88.5	90.4	89.7
45°	1418.8	1042.2	262.1	112.5	97.6	89.7	83.9	80.7	80.7	82.0	82.6
47.5°	1460.4	1038.9	225.1	106.7	92.3	84.6	77.4	74.8	74.2	74.2	72.8
50°	1557.4	1084.4	196.5	100.2	85.9	78.7	72.8	69.6	67.0	65.7	65.1
52.5°	1746.7	1226.3	174.3	92.3	78.7	72.8	67.6	65.1	61.8	58.5	57.9
54°	1930.1	1372.6	173.1	85.9	72.8	69.0	64.4	63.1	59.2	54.7	53.3
55°	2012.7	1457.8	177.6	80.7	69.0	66.4	62.5	61.1	57.3	52.1	51.4
57.5°	2081.1	1491.0	175.0	67.0	62.5	61.8	58.5	56.6	52.1	44.9	43.6
60°	1675.1	1127.4	125.6	59.2	57.3	55.9	53.3	52.1	46.2	38.3	37.8
62.5°	1058.4	648.6	80.0	52.1	50.1	48.1	44.9	43.6	38.3	30.6	28.6
65°	450.8	268.7	54.0	46.2	43.0	39.7	37.1	35.2	30.6	22.8	22.1
67.5°	117.1	95.6	44.9	40.4	35.7	31.2	29.3	26.0	20.9	15.6	15.0
70°	52.7	48.1	37.8	33.8	28.6	24.1	21.4	18.2	13.6	10.4	9.8
72.5°	31.2	30.6	28.6	25.4	21.4	18.2	15.6	12.4	9.1	5.9	5.9
75°	19.5	18.8	19.5	17.6	15.0	13.6	11.7	8.5	5.2	2.6	2.6
77.5°	11.7	11.7	11.7	11.0	10.4	10.4	8.5	5.2	2.6	0.7	0.7
80°	9.1	9.1	9.8	9.1	9.1	9.1	7.1	3.9	1.3	0.0	0.0
82.5°	9.1	9.8	11.0	10.4	9.1	7.8	6.5	3.9	1.3	0.0	0.0
85°	2.6	1.9	3.3	4.5	6.5	5.9	4.5	3.3	1.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	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)