

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: P382745

Luminaire Tested: **GLEON-SA1B-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5460.7 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

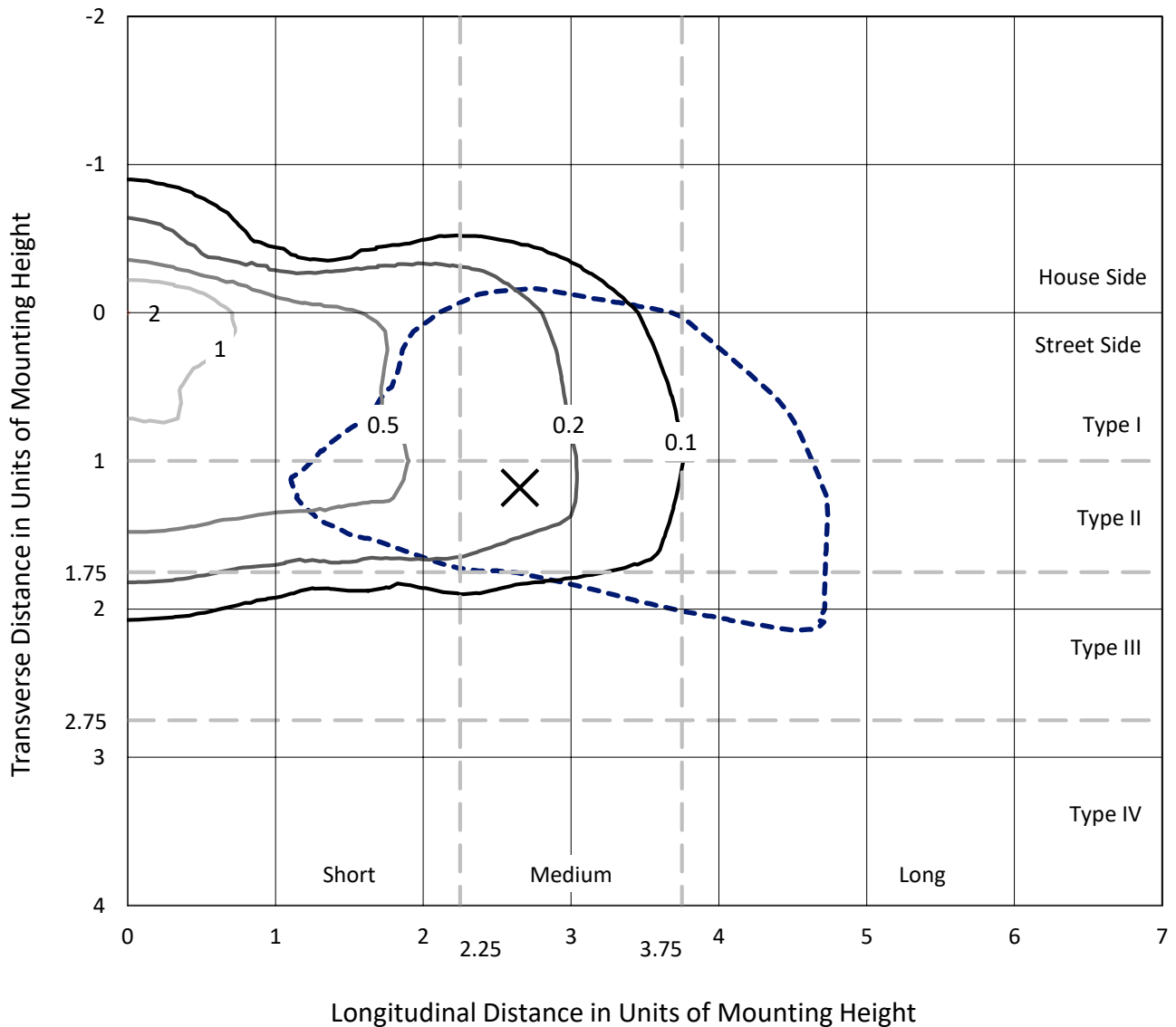
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

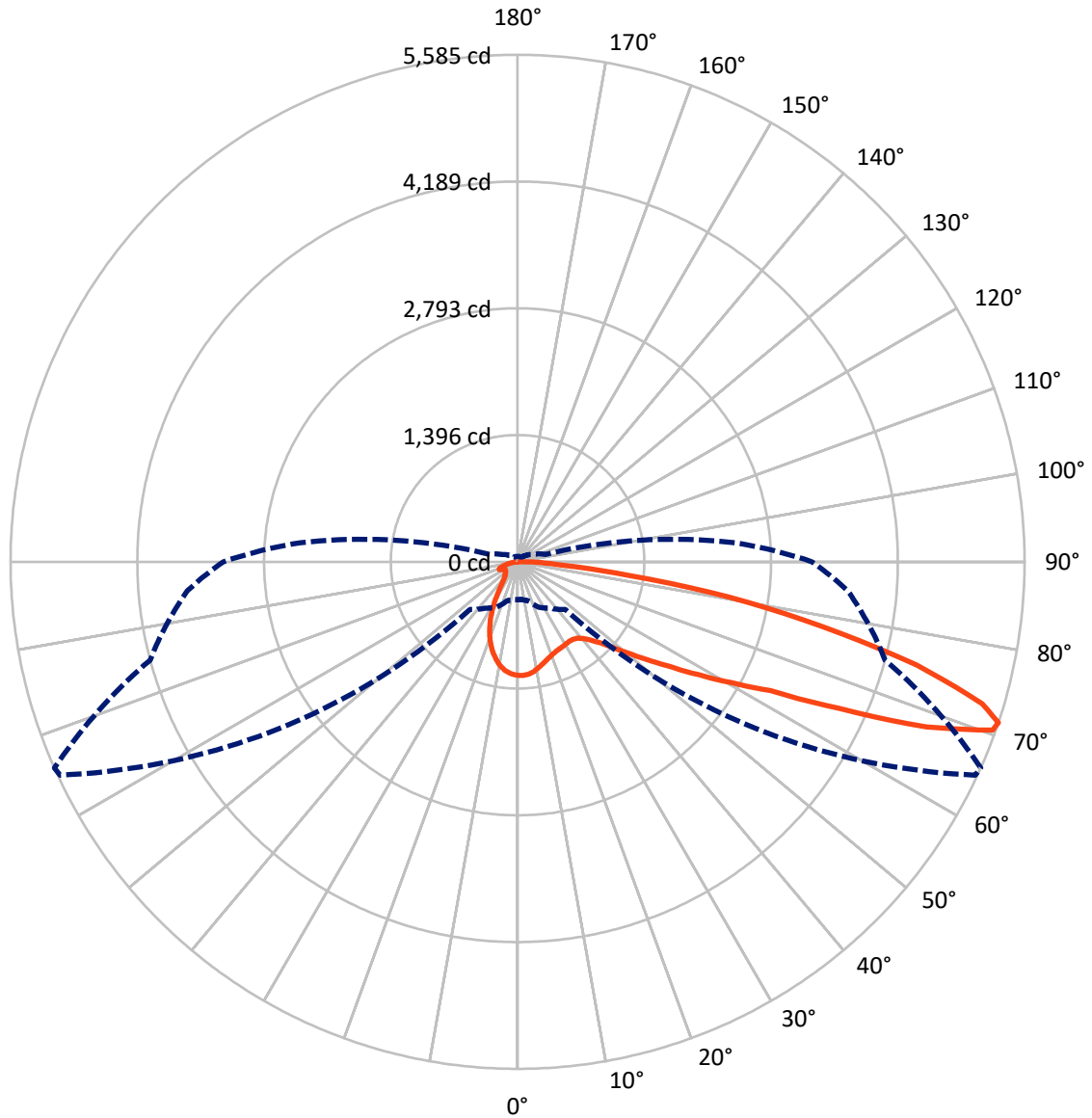
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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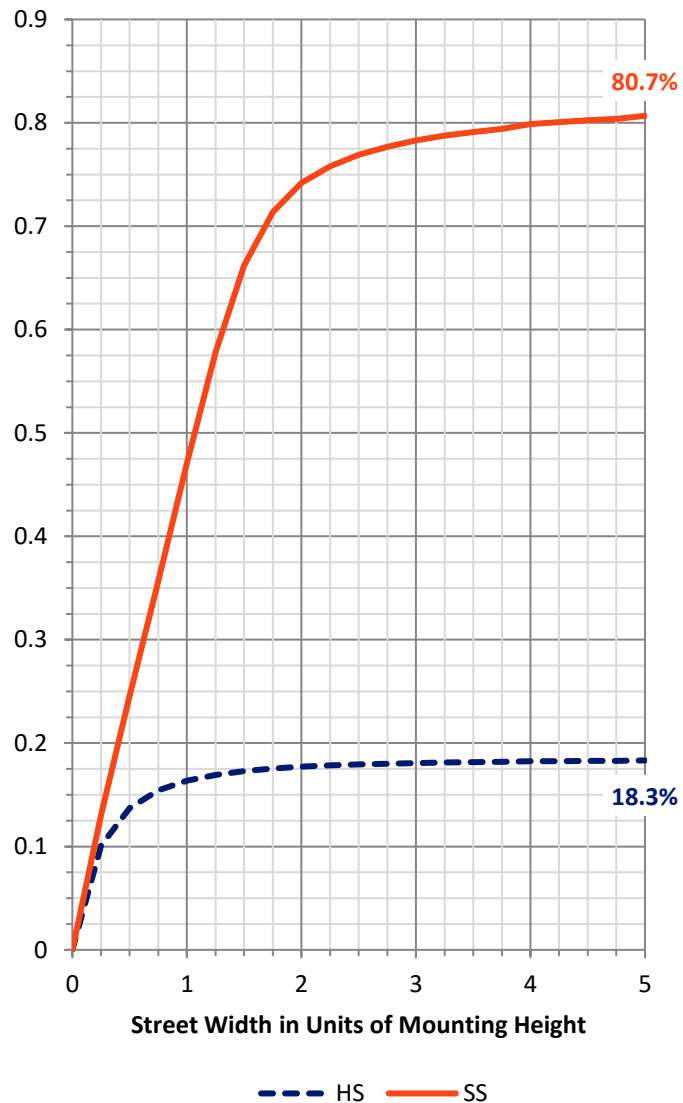
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.0	0.0	1012.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	4448.7	0.0	4448.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	5460.7	0.0	5460.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	2.0
10°-20°	264.1	4.8
20°-30°	354.8	6.5
30°-40°	466.7	8.5
40°-50°	678.9	12.4
50°-60°	1060.5	19.4
60°-70°	1328.4	24.3
70°-80°	1013.3	18.6
80°-90°	184.0	3.4
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°	5460.7	100.0
0°-180°	5460.7	100.0

Coefficient of Utilization

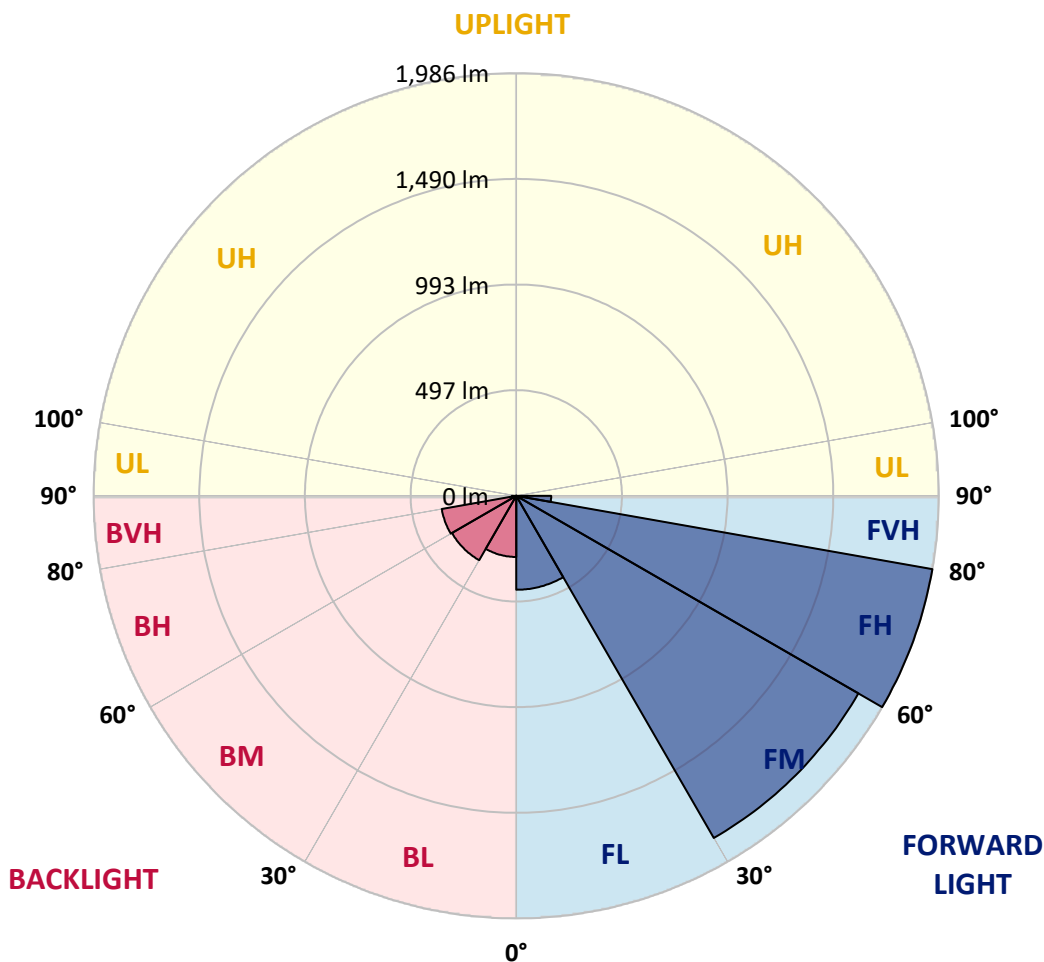


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.6	8.1			
FM (30°-60°)	1856.9	34.0			
FH (60°-80°)	1986.1	36.4			G2/5000
FVH (80°-90°)	164.1	3.0			G2/225
BL (0°-30°)	287.4	5.3	B1/500		
BM (30°-60°)	349.1	6.4	B1/1000		
BH (60°-80°)	355.6	6.5	B1/500		G1/500
BVH (80°-90°)	19.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1227.8	1225.9	1231.5	1237.4	1239.6	1243.4	1249.0	1252.3	1252.1	1252.7	1250.8
5°	1146.3	1143.8	1155.2	1164.4	1182.1	1202.2	1226.5	1243.8	1244.2	1254.0	1256.6
7.5°	1069.2	1067.5	1080.5	1095.4	1116.0	1146.5	1185.9	1223.2	1225.5	1252.1	1261.3
10°	1007.4	1007.0	1019.6	1035.8	1059.7	1093.9	1139.2	1193.8	1197.2	1243.1	1262.1
12.5°	959.1	959.9	970.8	989.3	1014.5	1050.1	1099.1	1160.8	1166.3	1228.7	1257.8
15°	923.4	926.5	935.4	954.0	978.9	1015.1	1065.4	1130.2	1138.5	1212.7	1255.3
17.5°	903.1	906.5	912.7	928.2	951.6	986.4	1034.1	1105.2	1112.7	1200.4	1255.4
20°	897.1	899.9	903.5	912.9	932.7	964.3	1009.4	1082.6	1090.7	1190.6	1257.4
22.5°	908.9	911.1	911.4	910.7	922.7	948.5	991.5	1066.0	1074.6	1184.2	1258.7
25°	934.4	937.2	935.2	928.2	924.2	940.0	982.3	1055.1	1063.7	1179.5	1256.0
27.5°	972.6	973.0	971.3	962.3	943.7	941.0	979.4	1048.6	1056.9	1174.0	1250.6
30°	1024.7	1027.1	1024.1	1011.8	981.4	956.0	982.9	1042.4	1049.9	1167.0	1241.8
32.5°	1085.6	1091.6	1091.4	1078.6	1034.9	989.9	996.8	1038.7	1044.5	1159.7	1230.9
35°	1148.8	1157.1	1172.5	1167.0	1112.9	1043.1	1023.6	1044.7	1048.6	1158.8	1223.4
37.5°	1214.4	1222.7	1254.5	1269.2	1205.9	1119.5	1065.8	1066.0	1067.8	1170.2	1222.8
40°	1283.0	1291.9	1339.8	1378.0	1326.3	1216.2	1133.9	1110.5	1108.4	1198.5	1234.0
42.5°	1379.2	1387.1	1444.6	1493.4	1460.0	1340.1	1228.0	1179.2	1174.8	1254.0	1269.6
45°	1500.7	1507.5	1568.6	1620.9	1603.7	1481.5	1346.2	1273.6	1272.8	1346.4	1341.8
47.5°	1645.4	1650.6	1705.5	1756.1	1762.3	1644.3	1494.8	1419.3	1407.1	1473.1	1453.6
50°	1796.0	1801.9	1839.2	1893.5	1939.7	1862.0	1685.9	1597.9	1581.5	1640.3	1612.0
52.5°	1895.8	1903.4	1935.9	2004.7	2139.1	2100.7	1912.0	1814.3	1789.4	1843.0	1821.3
55°	1851.3	1868.6	1918.1	2028.4	2298.7	2465.3	2190.8	2066.7	2038.7	2083.1	2070.4
57.5°	1648.9	1672.7	1740.4	1910.6	2321.0	2786.6	2612.3	2364.1	2344.2	2331.5	2337.3
60°	1279.2	1302.0	1386.0	1607.9	2164.8	3021.1	3246.8	2730.6	2702.0	2580.7	2586.0
62.5°	905.4	893.8	951.4	1113.7	1759.0	3048.7	3968.8	3220.8	3126.6	2843.9	2820.7
65°	690.5	687.8	713.7	765.3	1065.4	2719.3	4398.8	4044.7	3897.4	3153.5	3098.8
67.5°	567.3	562.6	588.1	663.3	686.1	1754.4	4408.2	5000.5	4856.0	3538.9	3420.5
70°	466.4	461.2	485.0	582.0	634.0	889.7	3710.1	5560.3	5552.6	4026.8	3663.3
71°	418.2	414.4	442.9	550.7	622.9	741.5	3203.2	5561.9	5585.1	4192.0	3649.0
72.5°	340.5	341.8	372.0	490.2	614.6	654.8	2354.3	5302.6	5351.6	4349.4	3518.6
75°	226.3	227.4	267.0	377.1	596.0	640.6	1293.9	4449.5	4539.6	4255.1	3210.8
77.5°	151.9	151.6	178.6	258.7	519.2	640.6	758.7	3327.9	3426.9	3385.8	2475.3
80°	104.6	103.9	123.0	178.6	393.1	648.4	586.5	2332.2	2362.2	1828.4	1006.1
82.5°	64.1	64.6	80.3	126.1	267.5	583.5	553.7	1271.7	1239.1	512.8	251.3
85°	36.8	36.6	51.3	85.4	171.8	492.4	540.0	547.3	502.1	154.5	90.9
87.5°	13.2	14.2	27.5	47.3	98.4	343.0	458.1	284.7	256.6	69.8	41.1
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°	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1249.5	1250.6	1249.2	1241.8	1235.3	1224.9	1219.1	1211.0	1208.5	1207.4	1210.5
5°	1254.1	1254.5	1243.4	1223.6	1201.3	1175.1	1156.3	1133.1	1122.1	1117.5	1120.5
7.5°	1258.5	1256.8	1232.4	1194.6	1153.4	1107.9	1067.3	1030.2	1008.5	999.6	1000.4
10°	1259.1	1251.9	1212.9	1154.2	1090.5	1023.6	961.4	904.1	867.8	844.3	851.4
12.5°	1253.2	1241.1	1184.0	1102.0	1013.6	922.3	838.2	752.2	700.6	676.7	677.4
15°	1248.6	1226.8	1148.6	1040.5	921.8	800.9	686.1	585.0	530.0	505.5	494.0
17.5°	1244.9	1211.4	1107.5	971.3	813.3	660.1	522.0	432.0	401.8	394.6	391.6
20°	1239.6	1195.0	1061.7	891.2	689.9	502.5	381.2	336.8	336.9	345.2	346.3
22.5°	1232.3	1176.3	1012.8	801.3	557.3	365.9	298.8	286.0	299.0	314.9	317.7
25°	1221.4	1154.2	958.6	701.9	425.0	281.3	255.2	254.7	270.5	287.1	289.6
27.5°	1205.9	1125.4	898.2	595.3	313.2	239.0	228.7	232.7	244.3	256.5	257.4
30°	1185.1	1091.9	831.7	482.6	245.5	212.9	211.7	215.3	222.5	230.9	231.7
32.5°	1162.3	1057.7	760.5	373.6	210.3	198.7	199.8	201.6	204.9	208.3	209.1
35°	1141.6	1022.8	687.8	283.9	193.5	189.5	188.7	188.4	188.7	187.6	187.8
37.5°	1128.2	994.0	612.0	226.1	183.8	181.4	179.1	176.2	173.1	171.2	171.6
40°	1123.4	972.4	535.3	195.3	175.9	174.2	169.9	163.9	160.0	158.9	158.9
42.5°	1136.5	961.4	461.2	179.9	169.3	166.5	159.3	152.3	149.5	149.3	149.1
45°	1176.8	965.9	390.7	171.4	163.3	157.8	148.4	142.5	140.7	141.0	140.8
47.5°	1249.2	994.3	330.3	165.7	157.2	150.1	139.5	134.8	132.6	132.6	132.7
50°	1372.4	1060.9	282.3	161.0	152.1	142.9	133.1	127.2	124.3	124.1	124.1
52.5°	1551.7	1180.1	252.3	157.1	146.5	136.5	126.7	119.3	115.8	115.0	114.7
55°	1776.4	1350.8	244.0	154.5	139.0	129.5	119.0	111.6	107.7	105.9	105.7
57.5°	2027.7	1558.7	260.4	151.2	131.3	121.2	110.5	103.5	99.4	97.3	97.1
60°	2282.1	1785.5	327.3	146.7	124.8	112.2	101.8	95.4	91.3	89.0	88.6
62.5°	2536.8	2024.5	464.0	146.3	120.3	103.5	93.0	87.5	83.6	81.0	80.5
65°	2824.1	2286.2	619.4	156.3	118.8	95.6	83.9	79.6	76.2	73.9	73.7
67.5°	3154.0	2581.7	604.5	176.8	123.9	88.4	75.5	72.0	69.6	67.7	67.5
70°	3308.9	2535.5	375.8	191.3	131.1	81.4	67.4	64.8	63.0	61.7	61.1
71°	3244.0	2407.4	315.0	189.7	130.3	78.4	64.1	62.2	60.4	59.2	58.6
72.5°	3067.1	2195.6	262.8	176.4	121.8	72.9	60.0	58.0	56.4	55.1	54.7
75°	2752.3	1960.8	210.4	141.0	97.1	61.7	52.6	50.5	49.2	48.4	47.7
77.5°	2023.2	1399.4	162.7	111.4	71.4	50.3	44.9	43.4	42.0	40.9	40.3
80°	775.0	542.1	109.5	83.2	52.4	39.8	36.2	35.4	34.1	33.3	33.3
82.5°	208.7	162.0	58.4	50.3	35.0	29.1	27.8	27.3	26.2	24.7	24.9
85°	84.5	71.4	32.8	27.8	21.5	17.1	18.6	18.8	17.5	15.6	15.8
87.5°	37.2	30.4	18.3	12.3	9.4	6.6	8.5	8.5	7.7	6.4	5.9
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)