

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: P319795

Luminaire Tested: **GLEON-SA1B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400 lumens
Efficiency: N/A
Efficacy: 100.0 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

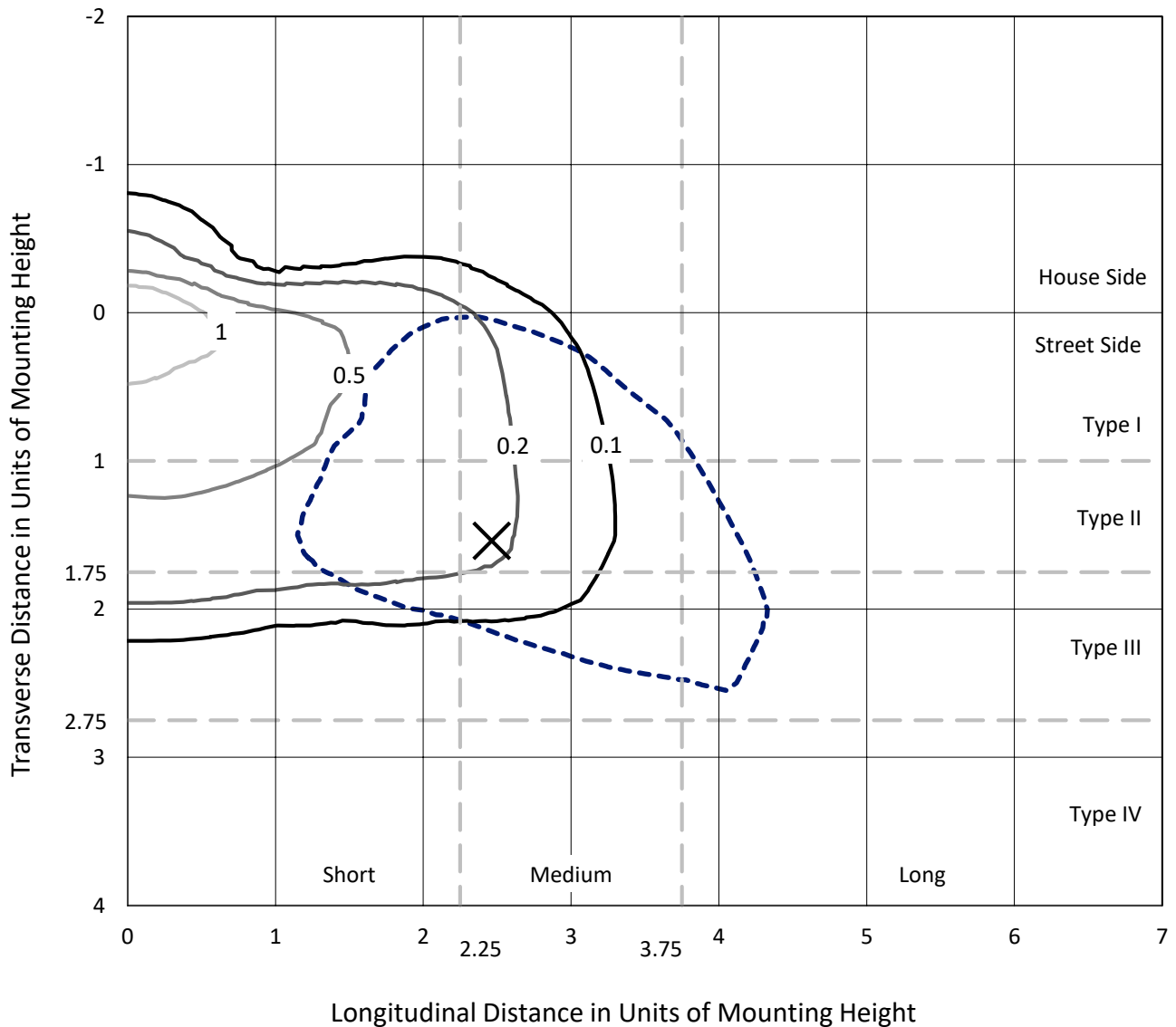
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

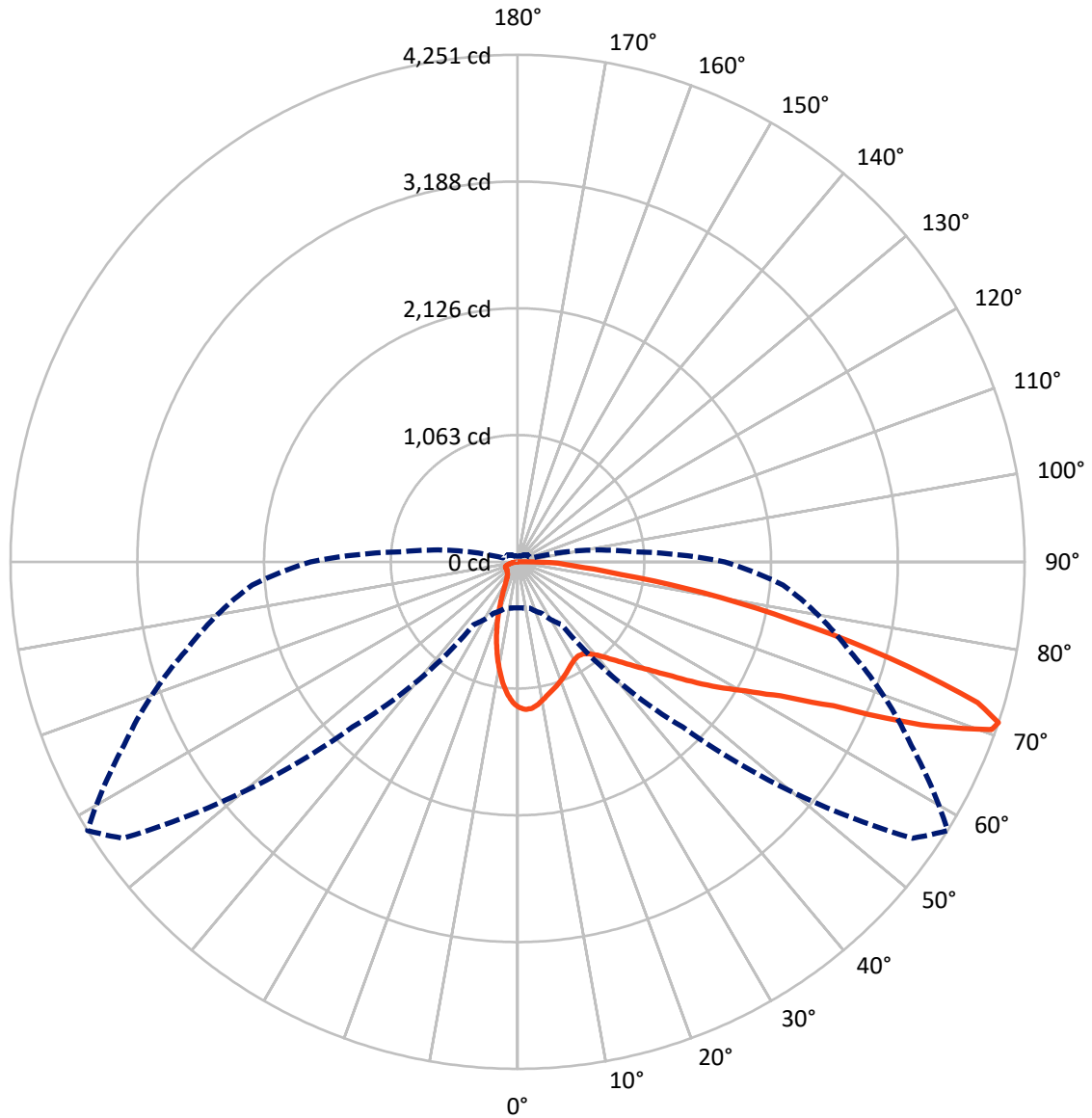
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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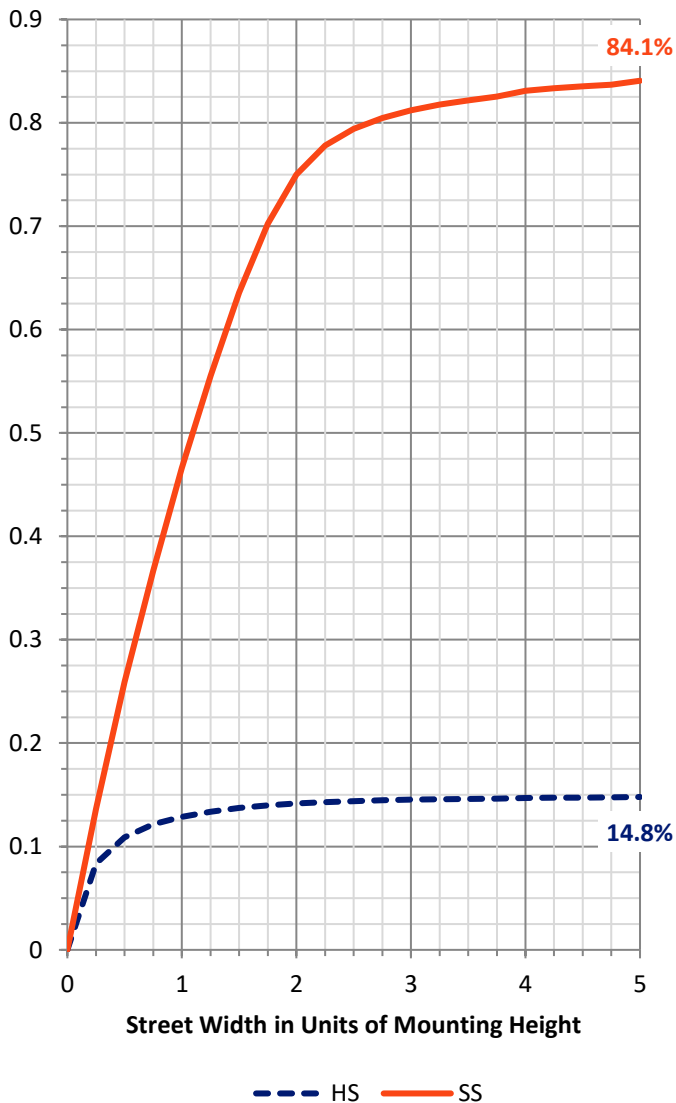
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.8	0.0	657.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3742.2	0.0	3742.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	4400.0	0.0	4400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	2.4
10°-20°	233.9	5.3
20°-30°	297.2	6.8
30°-40°	378.6	8.6
40°-50°	536.9	12.2
50°-60°	830.8	18.9
60°-70°	1131.0	25.7
70°-80°	754.5	17.1
80°-90°	131.9	3.0
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°	4400.0	100.0
0°-180°	4400.0	100.0

Coefficient of Utilization

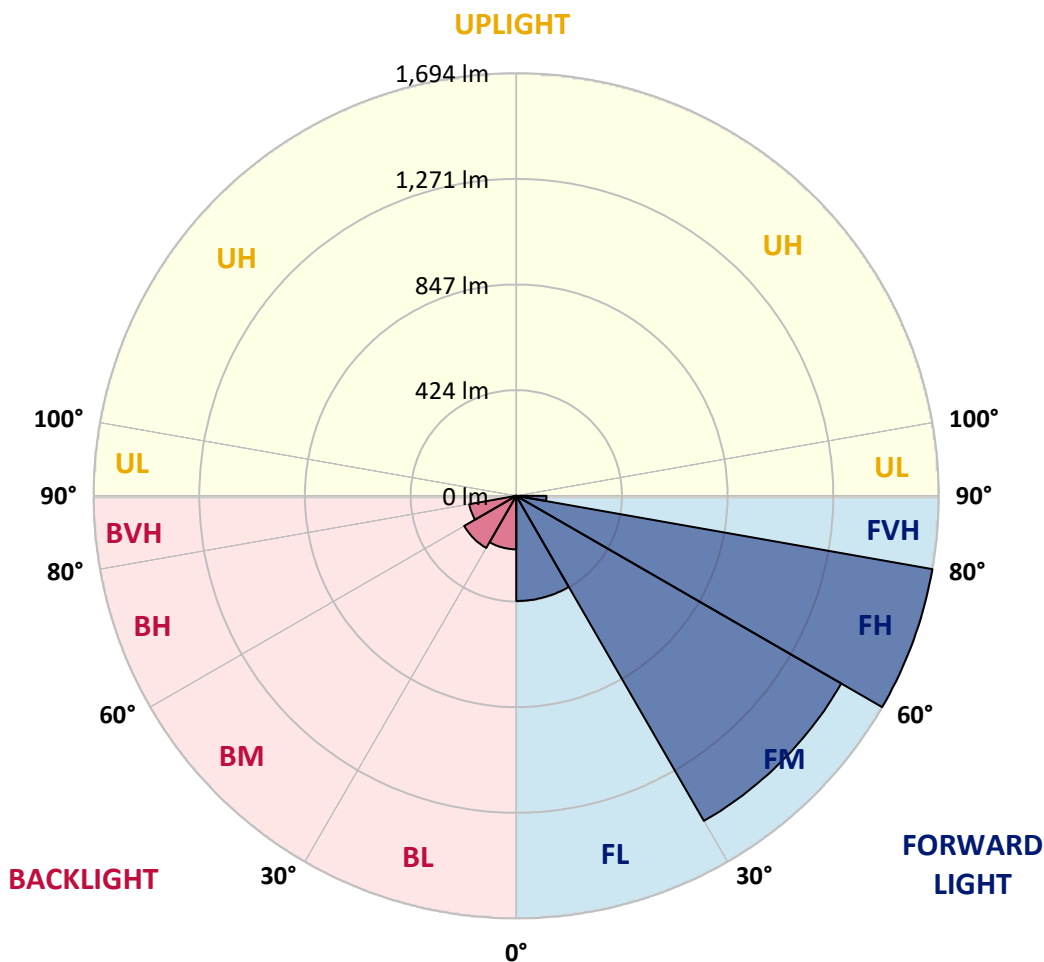


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.8	9.6			
FM (30°-60°)	1505.0	34.2			
FH (60°-80°)	1694.4	38.5			G1/1800
FVH (80°-90°)	121.0	2.7			G2/225
BL (0°-30°)	214.4	4.9	B1/500		
BM (30°-60°)	241.2	5.5	B1/1000		
BH (60°-80°)	191.2	4.3	B1/500		G1/500
BVH (80°-90°)	11.0	0.2			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°	58°	65°	75°	85°
0°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1251.4	1249.7	1250.4	1249.1	1246.2	1243.3	1239.0	1239.8	1233.8	1224.9	1213.9
5°	1227.8	1227.2	1231.8	1234.4	1236.6	1234.9	1233.7	1235.2	1226.5	1214.2	1195.0
7.5°	1178.3	1171.6	1177.4	1186.1	1194.4	1200.7	1209.0	1210.1	1204.5	1191.7	1166.5
10°	1108.0	1101.5	1110.1	1123.8	1140.3	1155.3	1172.0	1175.1	1176.2	1164.5	1134.0
12.5°	1035.0	1030.1	1038.7	1057.9	1085.3	1108.4	1135.1	1139.7	1149.2	1141.4	1104.0
15°	969.7	967.9	978.3	997.2	1028.7	1064.1	1102.6	1111.0	1127.1	1124.5	1080.5
17.5°	913.3	912.9	920.8	940.6	975.6	1020.3	1070.3	1084.5	1108.4	1111.5	1061.2
20°	871.3	870.4	875.9	890.5	926.5	977.2	1035.3	1054.9	1089.4	1100.2	1041.3
22.5°	848.8	848.6	848.8	855.7	885.1	932.3	1001.3	1025.2	1070.9	1091.1	1019.2
25°	845.0	844.5	841.1	840.4	857.1	894.8	967.6	993.9	1053.3	1084.8	998.2
27.5°	854.9	855.5	851.1	843.9	847.3	870.1	938.3	966.5	1039.2	1083.6	983.7
30°	875.6	875.3	871.5	864.0	857.4	860.9	917.5	945.7	1029.7	1089.0	973.7
32.5°	898.5	900.1	899.4	895.2	885.4	871.3	911.2	938.8	1026.9	1101.8	969.4
35°	925.9	927.7	933.2	936.5	925.0	902.3	924.7	948.6	1034.9	1126.1	976.3
37.5°	951.9	956.7	972.2	985.8	976.0	950.7	960.5	977.5	1059.5	1164.2	994.9
40°	982.0	986.1	1011.4	1040.4	1038.9	1012.6	1018.3	1029.7	1103.1	1218.9	1028.4
42.5°	1011.6	1019.8	1056.5	1097.6	1109.4	1086.2	1095.3	1101.2	1164.4	1291.4	1087.0
45°	1051.0	1059.8	1110.7	1160.2	1187.8	1174.8	1189.2	1191.5	1241.5	1390.1	1172.0
47.5°	1110.6	1120.7	1180.0	1232.0	1274.1	1275.5	1299.3	1298.3	1337.7	1503.1	1279.2
50°	1203.5	1218.0	1266.6	1315.2	1366.4	1394.9	1426.6	1422.2	1453.1	1623.4	1402.6
52.5°	1325.2	1331.9	1367.9	1403.8	1467.4	1531.3	1576.8	1572.8	1584.0	1747.1	1542.6
55°	1451.3	1456.4	1471.2	1490.8	1576.4	1680.6	1776.8	1770.6	1742.2	1875.5	1681.0
57.5°	1564.7	1575.0	1585.3	1593.4	1686.1	1836.6	1981.4	1981.9	1913.9	2014.1	1824.0
60°	1582.3	1591.4	1659.3	1723.3	1873.9	2044.7	2200.5	2195.9	2091.5	2164.5	1983.4
62.5°	1398.7	1419.1	1532.5	1703.0	2054.7	2425.5	2479.9	2474.2	2303.9	2349.8	2169.0
65°	1002.4	1025.5	1162.4	1418.5	1967.0	2845.0	2984.1	2907.8	2593.6	2577.7	2386.4
67.5°	578.3	583.8	643.1	848.8	1497.7	2866.9	3753.4	3646.6	3043.4	2836.2	2492.8
70°	427.6	427.5	441.6	522.3	810.5	2339.8	4119.2	4215.0	3517.0	2921.3	2342.4
71°	386.7	387.2	402.9	475.4	641.9	1958.5	4041.5	4251.2	3641.8	2879.3	2233.6
72.5°	330.8	332.3	354.2	426.4	540.0	1350.6	3706.8	4034.2	3701.0	2775.7	2063.3
75°	250.9	254.4	284.8	359.4	493.5	685.0	2720.5	3221.4	3287.8	2449.2	1533.1
77.5°	179.0	183.0	217.3	302.2	469.2	516.2	1821.9	2349.8	2419.5	1569.6	691.5
80°	113.1	117.9	143.8	240.5	440.8	490.2	1144.9	1579.4	1319.3	502.3	176.0
82.5°	66.4	70.0	89.2	157.1	360.0	472.1	673.6	875.5	513.4	151.7	80.0
85°	38.5	40.2	55.6	100.1	261.5	445.6	494.9	489.4	222.9	74.2	37.9
87.5°	17.9	19.9	33.0	52.3	145.1	322.9	391.1	338.0	138.6	34.8	17.8
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°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1208.5	1205.9	1195.0	1185.4	1175.3	1162.1	1147.5	1145.7	1136.8	1138.5	1135.4
5°	1184.6	1178.0	1151.8	1128.1	1100.0	1074.9	1047.6	1035.0	1016.9	1015.7	1011.1
7.5°	1150.4	1138.2	1097.6	1052.5	1007.4	964.5	922.1	894.2	865.7	853.5	852.5
10°	1112.0	1091.1	1031.3	964.7	899.7	837.0	776.3	731.4	690.9	671.8	671.0
12.5°	1075.5	1044.7	962.7	871.9	783.0	701.8	618.6	559.6	508.8	491.8	484.6
15°	1044.5	1001.1	895.9	779.8	671.9	559.1	464.4	402.3	355.4	339.2	336.1
17.5°	1014.5	958.7	827.3	686.8	556.4	432.4	337.5	291.4	266.4	259.8	259.6
20°	984.6	915.0	755.8	591.6	444.6	323.4	259.5	238.8	230.4	229.6	228.4
22.5°	950.7	868.7	680.5	496.1	347.0	254.3	220.6	212.3	211.2	214.0	214.0
25°	919.0	822.7	604.2	402.6	269.9	212.1	196.9	195.3	198.2	203.1	203.5
27.5°	889.4	778.4	529.7	319.6	216.3	186.8	180.5	182.5	187.8	193.4	193.6
30°	865.0	736.6	457.4	251.8	182.7	168.0	166.9	170.9	176.6	181.0	182.1
32.5°	846.2	700.9	387.5	202.5	160.8	153.9	154.8	158.2	161.7	164.2	165.8
35°	837.5	670.2	322.9	170.7	146.8	143.0	144.2	146.1	147.6	149.4	150.8
37.5°	839.0	646.5	265.3	151.0	137.5	135.5	135.5	135.5	135.5	136.4	136.6
40°	853.2	632.8	218.4	138.4	131.2	129.1	127.4	125.8	124.6	125.2	124.9
42.5°	889.7	631.6	184.1	130.4	126.1	122.6	119.2	117.1	115.6	116.2	116.5
45°	951.6	646.9	160.9	124.8	121.4	116.0	111.7	109.4	108.4	110.4	110.7
47.5°	1031.8	680.4	146.8	120.6	116.9	109.9	105.3	103.1	103.5	106.4	107.1
50°	1135.1	734.6	140.1	118.0	113.9	104.7	99.9	98.1	99.0	103.1	104.1
52.5°	1248.5	812.8	140.9	117.3	111.9	100.9	95.8	93.6	95.2	99.0	99.8
55°	1379.4	906.7	153.6	118.3	109.0	98.4	92.4	88.7	90.0	93.5	94.1
57.5°	1524.9	1014.3	179.2	118.0	105.3	96.1	88.9	83.4	84.3	86.4	87.1
60°	1676.3	1144.3	218.9	118.9	103.6	93.3	84.1	77.2	76.9	78.8	79.1
62.5°	1858.1	1294.7	264.2	119.5	104.7	89.8	77.9	71.1	70.2	70.7	71.0
65°	2045.4	1403.5	247.2	117.1	108.1	86.9	72.3	65.1	63.5	63.1	63.3
67.5°	2051.2	1286.8	173.3	112.2	109.4	85.4	68.2	60.1	57.3	56.2	56.1
70°	1839.5	1045.4	135.0	107.0	103.9	82.9	64.4	55.9	51.8	50.1	50.0
71°	1736.2	962.4	128.0	104.4	99.8	80.5	62.7	54.1	49.8	48.0	47.7
72.5°	1574.2	862.7	119.4	100.2	91.8	74.2	59.5	51.5	47.1	44.9	44.4
75°	1129.7	564.2	102.5	89.4	76.0	59.2	52.1	46.3	42.5	39.8	39.5
77.5°	435.3	224.5	77.6	74.3	58.2	46.3	42.9	40.0	37.2	34.6	34.5
80°	134.6	100.4	56.6	55.9	42.1	34.5	33.4	32.6	31.6	28.8	28.2
82.5°	71.9	57.6	38.9	36.2	27.6	23.0	24.2	24.5	24.7	21.8	21.5
85°	34.3	30.5	21.9	20.5	16.1	12.9	14.9	16.1	16.2	13.3	12.4
87.5°	16.4	15.9	10.3	7.8	6.0	4.3	5.2	6.4	7.1	5.1	4.4
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)