

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: P190909

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-AFL-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3438.1 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 34
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: 25 FT

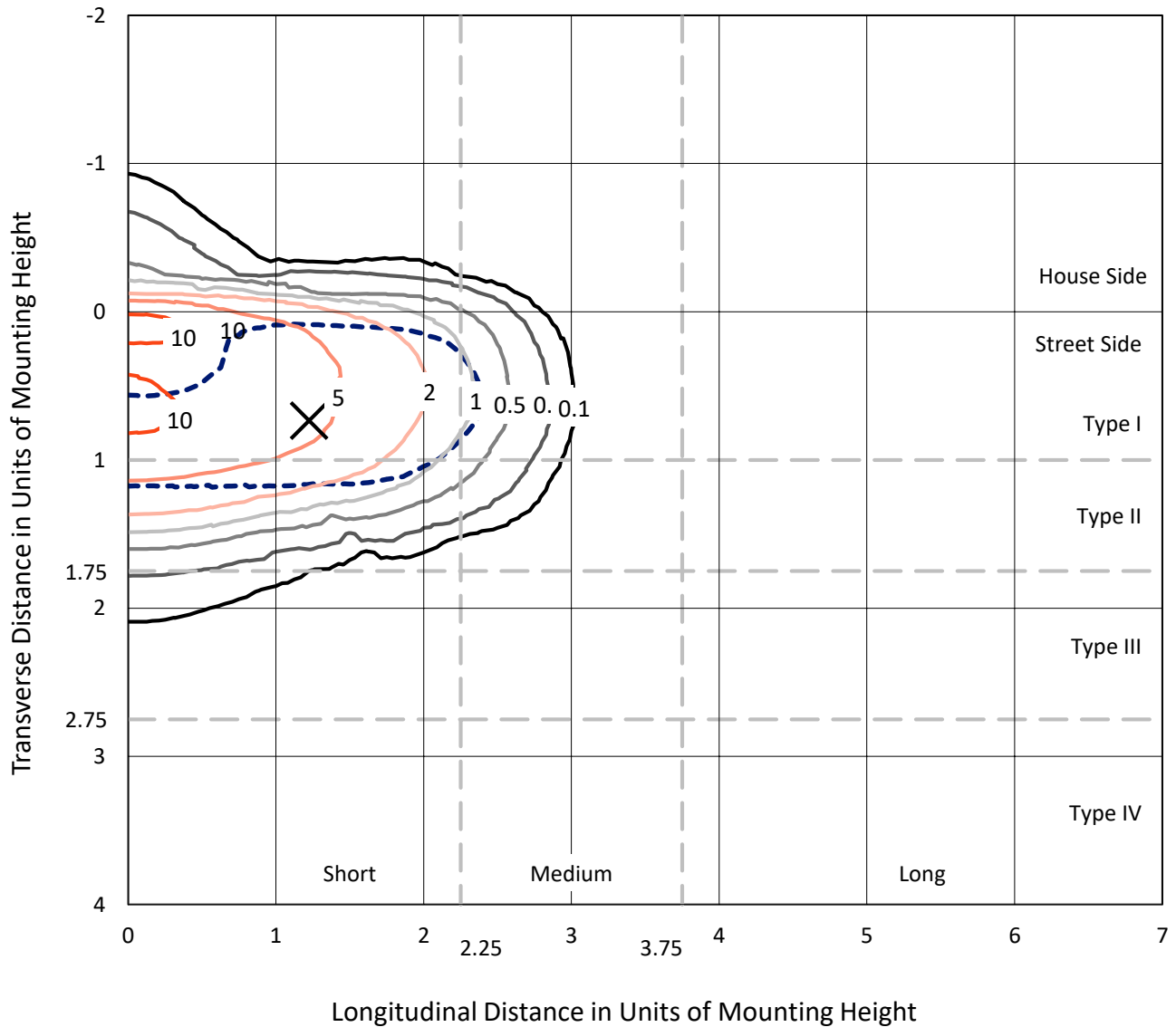


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Iso-Footcandle Lines of Horizontal Illumination

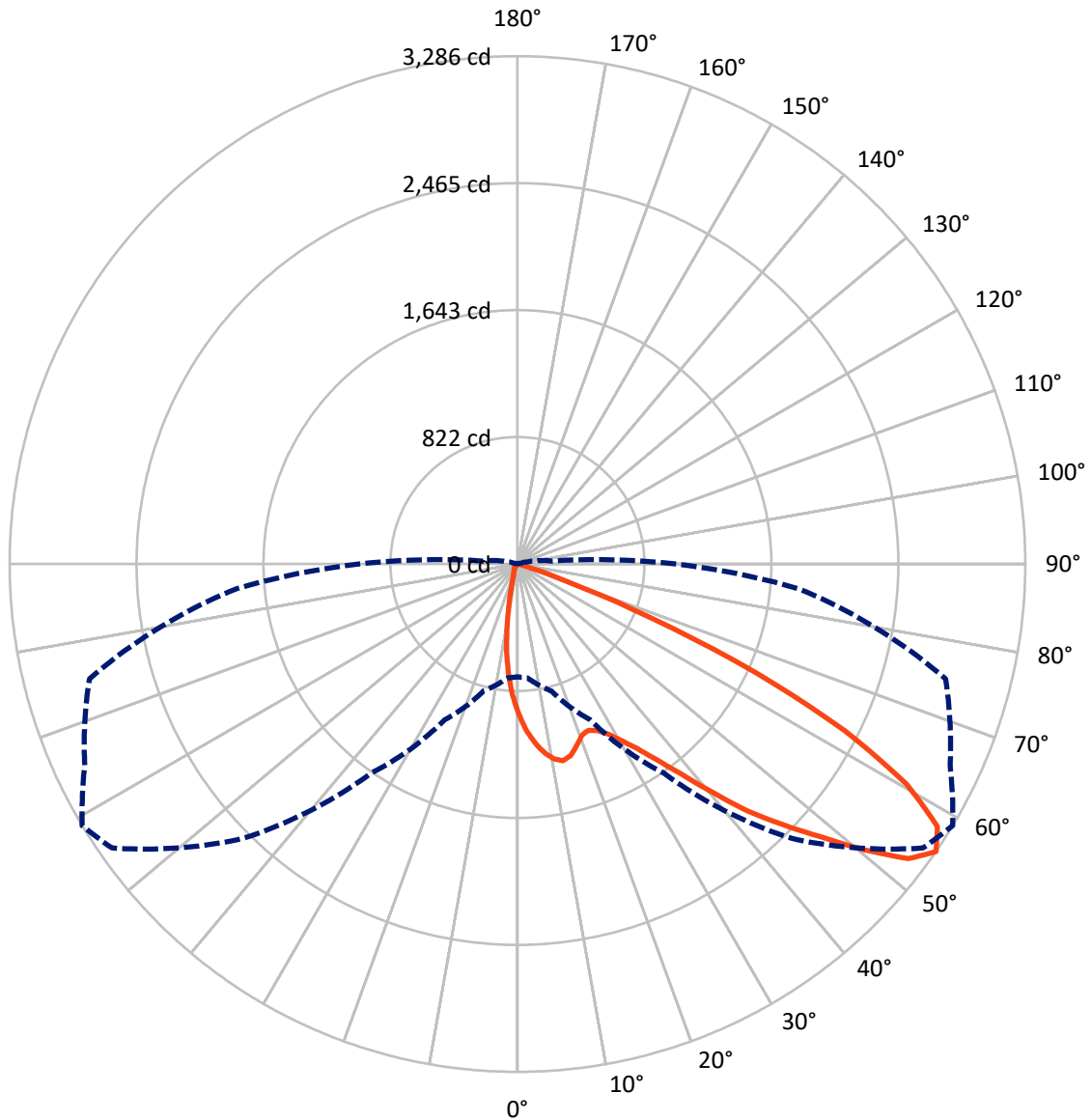
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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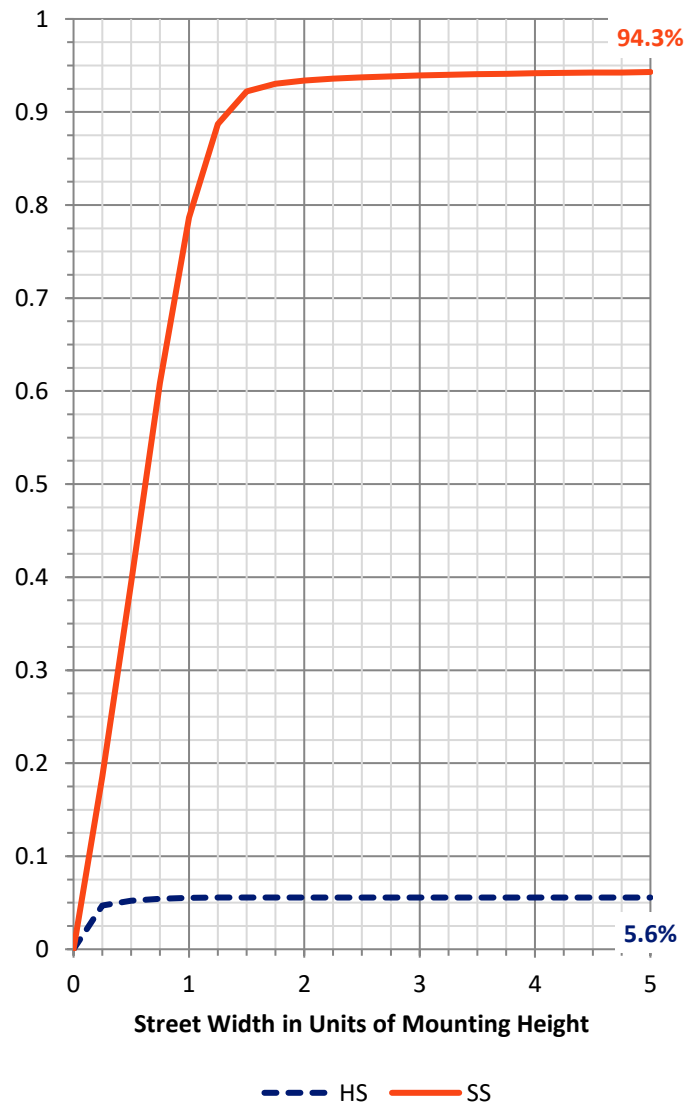
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	192.1	0.0	192.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3246.1	0.0	3246.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	3438.1	0.0	3438.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	2.4
10°-20°	194.1	5.6
20°-30°	330.3	9.6
30°-40°	568.0	16.5
40°-50°	876.9	25.5
50°-60°	881.6	25.6
60°-70°	452.1	13.1
70°-80°	49.0	1.4
80°-90°	5.1	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°	3438.1	100.0
0°-180°	3438.1	100.0



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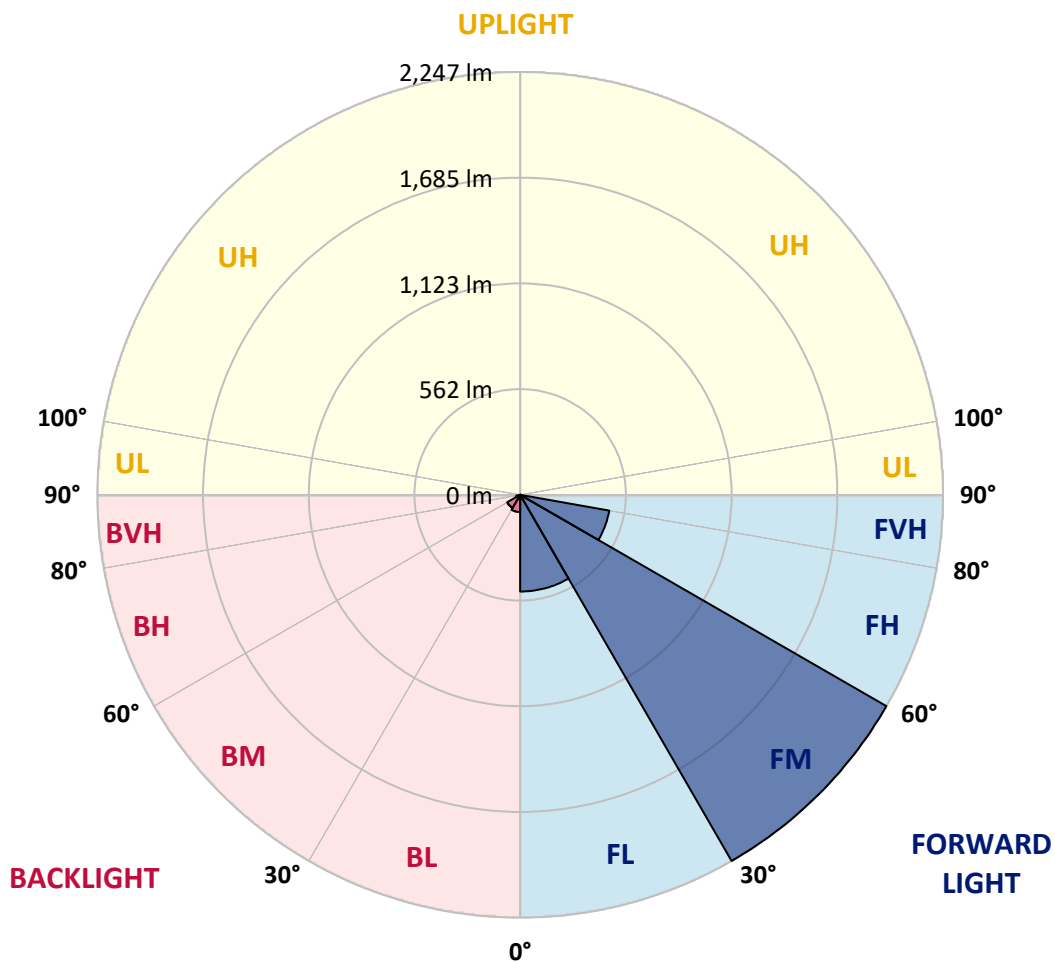
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.8	14.9			
FM	(30°-60°)	2246.8	65.3			
FH	(60°-80°)	480.5	14.0			G0/660
FVH	(80°-90°)	5.0	0.1			G0/10
BL	(0°-30°)	91.7	2.7	B0/110		
BM	(30°-60°)	79.7	2.3	B0/220		
BH	(60°-80°)	20.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8
2.5°	1145.2	1133.0	1129.3	1126.9	1115.7	1101.7	1082.7	1073.7	1055.5	1026.0	989.9
5°	1250.0	1247.8	1239.7	1235.2	1223.2	1203.4	1172.9	1158.4	1129.3	1079.8	1015.1
7.5°	1204.2	1218.2	1229.4	1248.0	1271.5	1270.7	1245.1	1230.0	1197.5	1132.2	1043.1
10°	1027.0	1038.4	1056.7	1099.1	1185.5	1261.8	1291.9	1280.9	1255.0	1180.3	1070.1
12.5°	992.4	991.1	994.4	1006.8	1052.0	1160.7	1283.9	1306.1	1300.8	1224.3	1095.7
15°	1010.9	1009.4	1009.0	1013.2	1024.2	1070.1	1224.5	1288.0	1328.8	1265.1	1117.4
17.5°	1062.5	1056.5	1053.2	1049.8	1046.6	1057.9	1153.1	1237.5	1333.0	1300.8	1135.4
20°	1151.2	1141.1	1129.1	1109.7	1091.4	1085.7	1123.0	1185.5	1317.9	1328.0	1147.1
22.5°	1262.6	1249.6	1229.0	1193.5	1156.3	1134.8	1137.8	1169.1	1295.1	1357.6	1152.7
25°	1387.8	1371.2	1343.5	1294.2	1239.7	1201.6	1181.7	1192.7	1284.7	1392.2	1159.0
27.5°	1521.9	1503.4	1467.3	1400.2	1338.3	1286.8	1246.2	1244.8	1302.4	1437.8	1169.1
30°	1654.8	1652.0	1604.9	1533.9	1452.0	1389.3	1330.8	1323.3	1351.7	1500.7	1189.2
32.5°	1832.2	1810.8	1753.2	1680.2	1585.7	1510.4	1441.2	1423.7	1427.4	1573.9	1220.3
35°	2055.7	2032.4	1951.3	1850.4	1744.7	1655.9	1579.3	1555.6	1546.7	1693.8	1272.6
37.5°	2200.3	2199.9	2148.9	2046.2	1932.8	1834.8	1751.6	1723.8	1705.8	1838.7	1353.8
40°	2204.0	2213.7	2220.3	2219.3	2138.6	2048.3	1974.4	1940.1	1898.1	2032.2	1458.6
42.5°	2085.8	2110.3	2169.4	2269.6	2317.5	2281.6	2219.3	2185.6	2123.1	2239.3	1586.5
45°	1925.9	1943.0	2046.2	2230.9	2414.5	2512.9	2465.4	2405.2	2322.8	2455.5	1701.1
47.5°	1854.3	1857.4	1924.1	2126.8	2421.8	2702.4	2731.2	2633.2	2504.2	2629.6	1790.8
50°	1640.2	1645.7	1737.8	1946.4	2336.2	2791.8	2998.3	2905.3	2702.0	2763.7	1823.4
52.5°	1236.2	1244.0	1360.8	1649.9	2100.8	2753.7	3189.4	3166.9	2918.7	2829.2	1825.3
55°	729.5	739.6	851.2	1110.6	1652.4	2511.0	3203.6	3286.3	3089.7	2867.9	1822.4
57.5°	340.6	347.8	411.6	572.1	1027.7	1984.5	2989.7	3204.4	3184.0	2888.5	1842.5
60°	181.0	183.0	198.5	247.8	464.4	1258.3	2572.3	2893.5	3098.0	2916.8	1867.1
62.5°	138.4	139.0	138.2	144.0	195.2	558.5	1944.3	2378.8	2751.7	2895.6	1839.9
65°	119.9	120.9	115.3	113.9	125.2	199.3	1155.1	1695.6	2162.3	2608.0	1654.6
67.5°	107.5	107.9	101.1	95.1	97.2	107.7	455.7	928.2	1431.2	1911.7	1199.3
70°	99.0	98.6	91.1	81.7	79.2	73.7	144.8	340.2	683.9	969.5	557.8
72.5°	87.7	87.9	84.2	72.0	65.8	51.6	67.2	99.2	204.1	264.1	130.6
75°	77.7	76.7	72.2	64.5	54.2	33.9	33.2	44.2	62.9	62.5	28.2
77.5°	56.2	55.2	56.6	53.0	41.6	21.9	16.7	21.3	25.6	24.8	7.9
80°	41.2	40.6	36.5	44.0	36.7	15.0	10.3	11.4	13.2	11.2	2.5
82.5°	28.2	28.0	25.8	24.3	20.9	9.1	6.4	7.1	8.5	6.2	1.2
85°	4.5	5.1	18.6	14.8	12.4	4.1	4.5	4.9	5.7	3.5	0.4
87.5°	0.0	0.0	8.7	7.7	2.5	1.6	2.7	2.9	2.9	1.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8
2.5°	971.5	951.1	913.7	874.9	839.0	796.2	766.7	744.6	719.0	712.2	727.2
5°	978.1	939.8	859.1	771.2	688.7	597.1	527.1	471.8	421.7	404.6	420.0
7.5°	988.7	931.7	800.0	655.4	511.7	368.9	271.1	206.7	165.7	153.5	160.1
10°	999.3	919.9	731.6	518.2	321.8	179.5	116.8	93.3	84.6	82.8	83.8
12.5°	1008.0	904.1	648.2	368.5	172.1	96.2	76.5	72.6	71.4	71.4	71.8
15°	1013.2	880.1	549.4	234.4	99.0	72.6	66.8	65.6	65.6	65.8	66.2
17.5°	1012.6	849.8	441.3	141.8	74.1	64.3	60.9	59.8	59.6	60.0	60.3
20°	1005.2	810.0	332.8	93.5	64.5	58.6	55.2	53.4	53.2	53.6	54.0
22.5°	990.9	760.9	238.0	72.0	58.2	53.2	48.9	47.3	47.3	47.7	48.1
25°	973.7	700.8	162.8	61.1	52.6	47.3	43.2	41.8	42.2	43.2	43.4
27.5°	952.2	633.2	110.6	52.4	45.6	41.4	38.4	37.3	38.4	39.8	40.2
30°	933.7	562.8	79.0	45.2	38.8	35.7	33.9	33.9	35.3	38.0	38.6
32.5°	919.5	494.7	60.9	40.0	33.7	31.0	30.1	31.0	33.2	35.9	36.5
35°	917.7	438.4	51.6	35.7	30.1	27.4	27.0	28.8	31.0	33.0	33.5
37.5°	931.7	386.5	46.4	32.2	26.8	24.3	23.9	26.2	28.4	30.8	31.4
40°	958.3	345.8	42.9	29.1	24.1	21.5	20.7	22.3	25.4	28.6	29.5
42.5°	992.8	312.1	38.8	25.8	21.5	17.9	16.9	18.6	21.9	25.4	26.4
45°	1025.6	283.1	34.3	22.1	18.1	13.8	13.4	15.9	17.5	20.9	21.7
47.5°	1043.7	257.5	30.5	18.1	14.0	11.2	11.2	11.8	13.4	17.5	18.3
50°	1037.6	237.0	26.4	13.4	9.7	8.5	8.5	8.3	10.7	14.0	14.6
52.5°	1025.4	225.3	22.7	10.3	6.6	6.1	5.5	6.1	7.5	8.9	9.1
55°	1023.7	223.2	19.0	8.3	4.7	4.1	3.1	3.1	3.1	2.9	2.5
57.5°	1037.8	226.5	16.1	6.6	3.5	2.7	1.6	0.0	0.0	0.0	0.0
60°	1052.4	229.9	13.8	4.7	2.5	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1028.1	222.2	11.6	2.9	1.8	0.6	0.0	0.0	0.0	0.0	0.0
65°	903.1	189.1	9.1	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	642.4	126.6	6.1	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	293.2	53.0	3.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	62.7	16.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.8	12.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.1	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)