

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: P270085

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270085
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: GWC-AF-01-LED-E1-AFL-7027-800-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3590.2 lumens
Efficiency: N/A
Efficacy: 81.6 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): 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: 25 FT

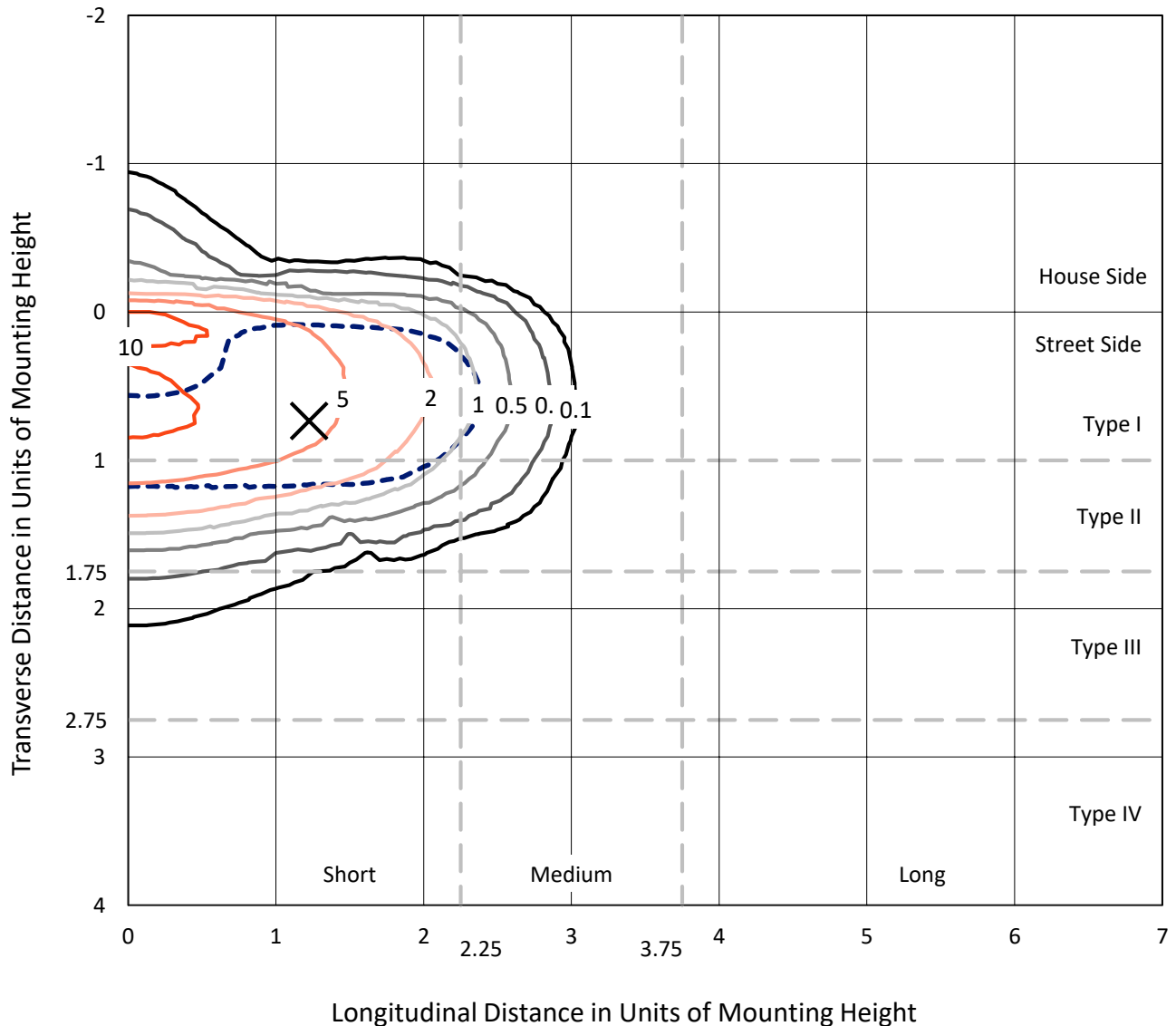


REPORT NUMBER: P270085

CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

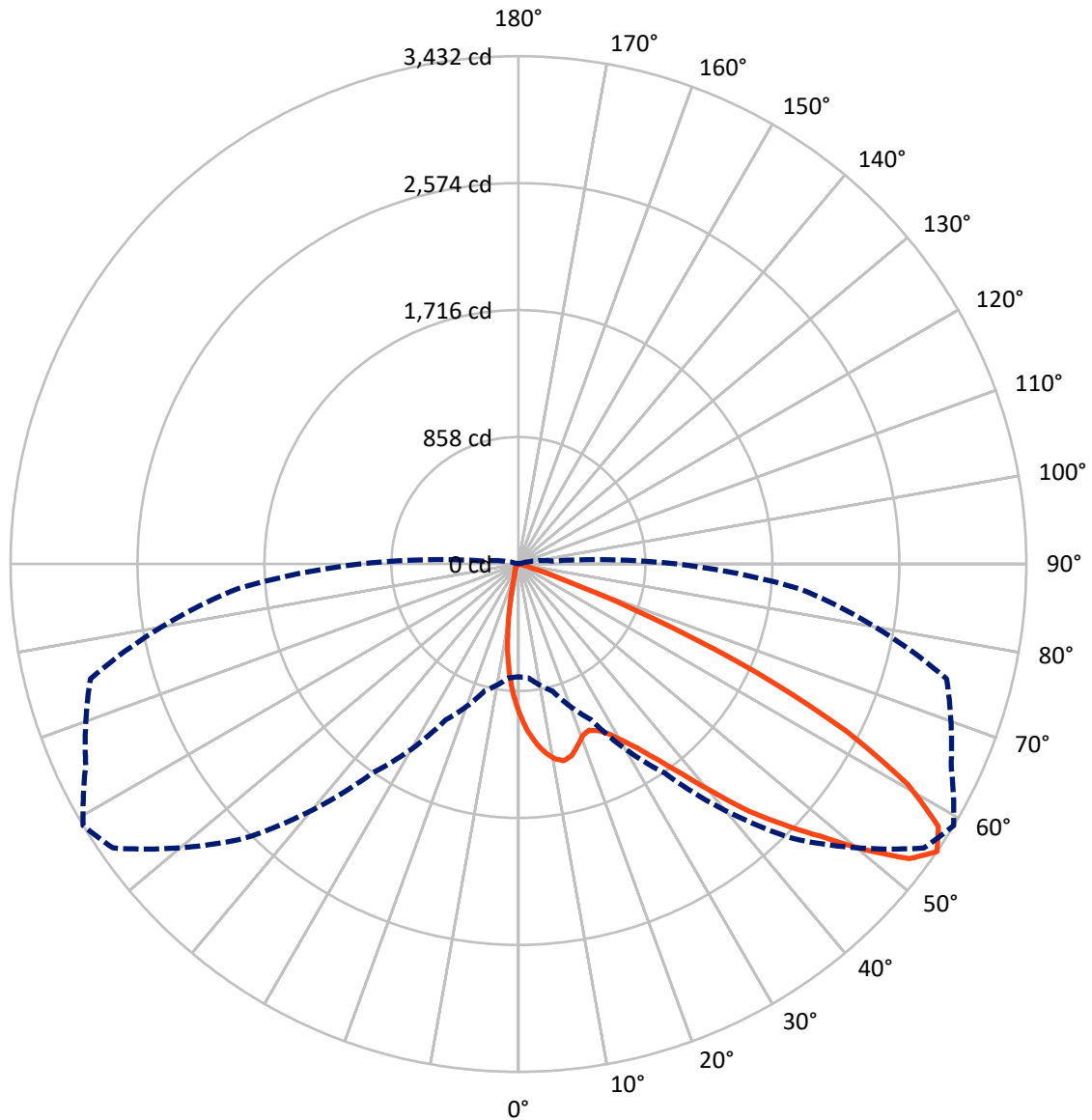
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P270085
CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7027-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P270085

CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7027-800-HSS

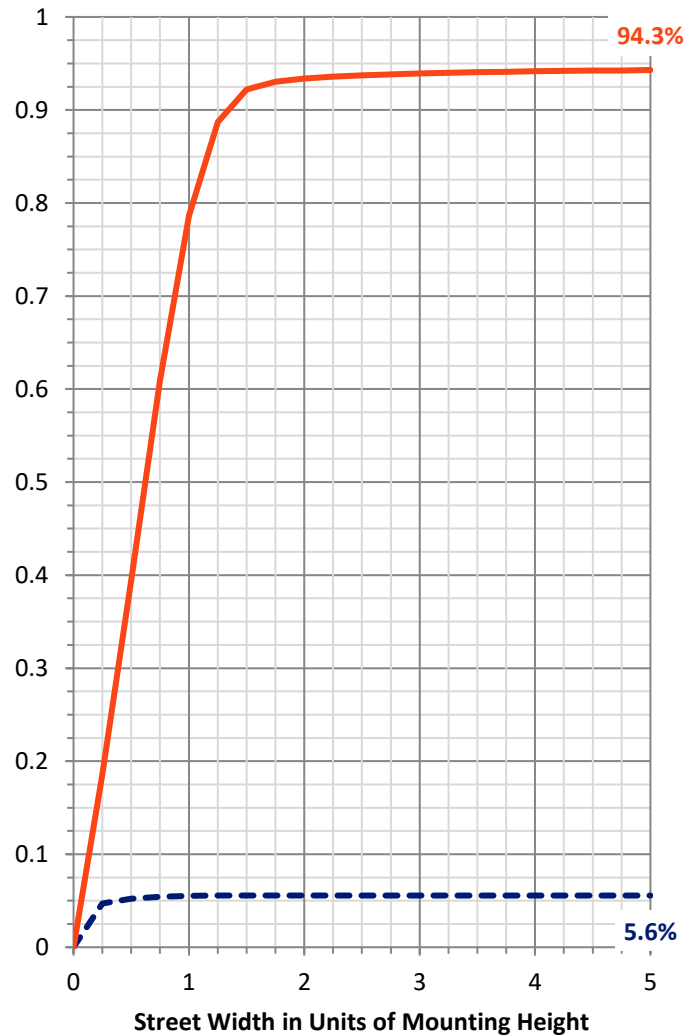
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	200.5	0.0	200.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3389.6	0.0	3389.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	3590.2	0.0	3590.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	2.4
10°-20°	202.7	5.6
20°-30°	344.9	9.6
30°-40°	593.1	16.5
40°-50°	915.7	25.5
50°-60°	920.6	25.6
60°-70°	472.1	13.1
70°-80°	51.2	1.4
80°-90°	5.3	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°	3590.2	100.0
0°-180°	3590.2	100.0



REPORT NUMBER: P270085

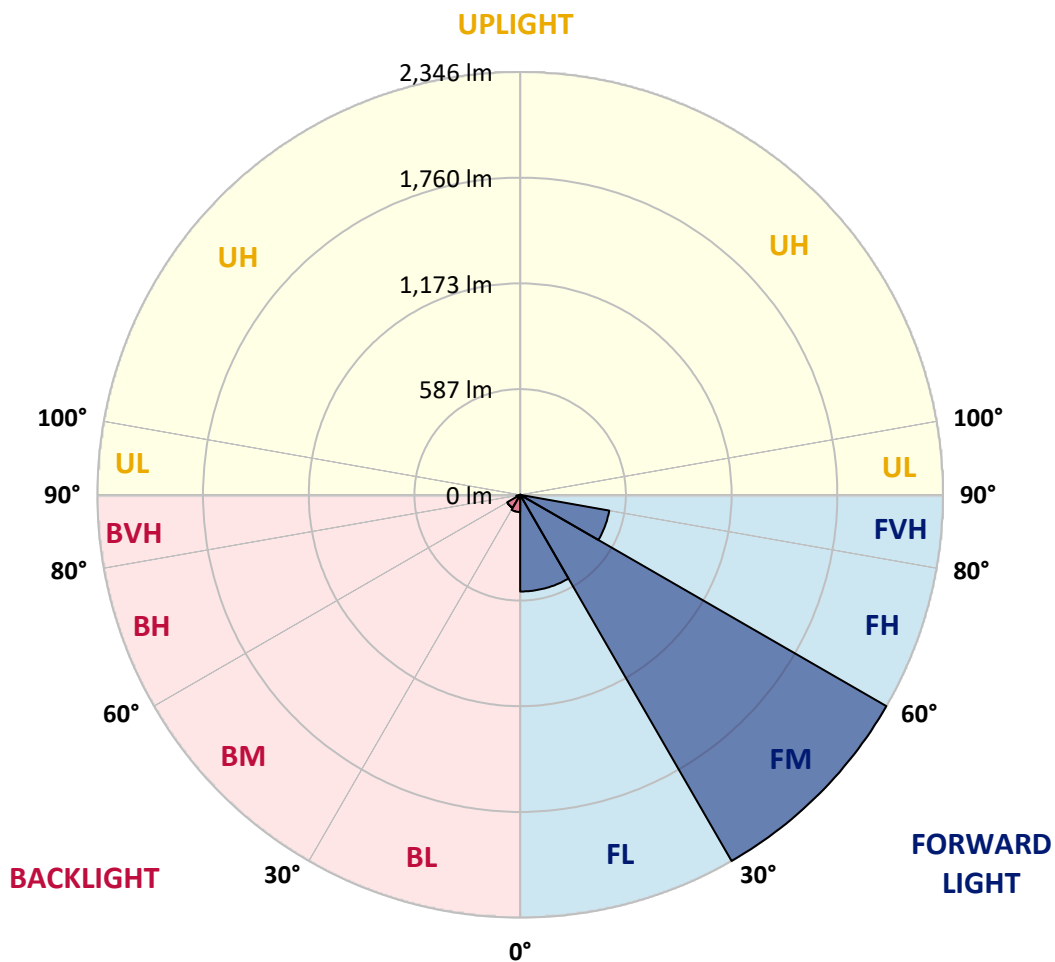
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.5	14.9			
FM	(30°-60°)	2346.2	65.3			
FH	(60°-80°)	501.8	14.0			G0/660
FVH	(80°-90°)	5.2	0.1			G0/10
BL	(0°-30°)	95.7	2.7	B0/110		
BM	(30°-60°)	83.2	2.3	B0/220		
BH	(60°-80°)	21.5	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





REPORT NUMBER: P270085

CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1195.8	1183.1	1179.2	1176.7	1165.0	1150.5	1130.5	1121.3	1102.1	1071.5	1033.8
5°	1305.3	1303.0	1294.5	1289.9	1277.4	1256.6	1224.8	1209.6	1179.2	1127.6	1060.0
7.5°	1257.4	1272.1	1283.8	1303.3	1327.8	1327.0	1300.2	1284.4	1250.4	1182.3	1089.2
10°	1072.5	1084.4	1103.4	1147.7	1238.0	1317.6	1349.0	1337.6	1310.4	1232.5	1117.4
12.5°	1036.3	1035.0	1038.4	1051.3	1098.5	1212.2	1340.7	1363.8	1358.3	1278.4	1144.1
15°	1055.5	1054.1	1053.6	1058.0	1069.5	1117.4	1278.6	1345.0	1387.5	1321.0	1166.8
17.5°	1109.6	1103.2	1099.8	1096.3	1092.8	1104.6	1204.0	1292.2	1392.0	1358.3	1185.6
20°	1202.2	1191.6	1179.0	1158.7	1139.7	1133.7	1172.6	1238.0	1376.0	1386.7	1198.0
22.5°	1318.4	1305.0	1283.3	1246.2	1207.4	1185.0	1188.2	1220.8	1352.3	1417.6	1203.6
25°	1449.2	1431.8	1403.0	1351.6	1294.5	1254.7	1233.9	1245.4	1341.5	1453.8	1210.2
27.5°	1589.3	1570.0	1532.2	1462.2	1397.5	1343.7	1301.3	1299.8	1360.0	1501.3	1220.8
30°	1728.1	1725.0	1676.0	1601.8	1516.2	1450.7	1389.7	1381.9	1411.5	1567.0	1241.7
32.5°	1913.2	1890.9	1830.8	1754.5	1655.8	1577.2	1504.9	1486.7	1490.5	1643.5	1274.2
35°	2146.7	2122.2	2037.5	1932.3	1821.9	1729.1	1649.2	1624.4	1615.1	1768.7	1328.9
37.5°	2297.5	2297.1	2244.0	2136.7	2018.2	1916.0	1829.0	1800.0	1781.2	1919.9	1413.6
40°	2301.5	2311.5	2318.5	2317.4	2233.1	2138.9	2061.7	2025.9	1982.1	2122.1	1523.1
42.5°	2178.0	2203.7	2265.3	2369.9	2420.0	2382.5	2317.4	2282.2	2217.0	2338.4	1656.7
45°	2011.1	2028.9	2136.7	2329.5	2521.3	2624.0	2574.4	2511.5	2425.5	2564.1	1776.3
47.5°	1936.3	1939.4	2009.2	2220.9	2528.8	2821.8	2852.0	2749.6	2615.0	2745.8	1870.0
50°	1712.8	1718.5	1814.7	2032.4	2439.5	2915.4	3130.9	3033.8	2821.5	2885.9	1904.1
52.5°	1291.0	1298.9	1421.0	1722.9	2193.7	2875.6	3330.4	3306.9	3047.8	2954.3	1905.9
55°	761.7	772.3	888.8	1159.7	1725.5	2622.2	3345.2	3431.7	3226.4	2994.8	1903.1
57.5°	355.7	363.2	429.8	597.5	1073.1	2072.3	3122.0	3346.1	3324.9	3016.2	1924.0
60°	189.0	191.2	207.2	258.7	484.9	1314.0	2686.1	3021.5	3235.1	3045.8	1949.7
62.5°	144.5	145.1	144.3	150.4	203.7	583.3	2030.3	2484.0	2873.4	3023.6	1921.2
65°	125.2	126.3	120.3	118.8	130.7	208.0	1206.2	1770.6	2257.9	2723.4	1727.9
67.5°	112.3	112.7	105.6	99.4	101.5	112.5	475.8	969.3	1494.5	1996.3	1252.3
70°	103.4	102.9	95.1	85.4	82.6	76.9	151.3	355.4	714.2	1012.3	582.5
72.5°	91.5	91.7	87.9	75.3	68.6	53.8	70.2	103.7	213.2	275.9	136.5
75°	81.1	80.0	75.5	67.4	56.5	35.4	34.8	46.2	65.7	65.2	29.5
77.5°	58.7	57.6	59.1	55.2	43.4	22.9	17.3	22.3	26.8	25.9	8.3
80°	43.0	42.4	38.1	46.0	38.3	15.6	10.8	11.9	13.8	11.7	2.5
82.5°	29.5	29.2	26.9	25.5	21.8	9.5	6.7	7.5	8.9	6.6	1.3
85°	4.7	5.3	19.5	15.5	12.9	4.2	4.7	5.1	5.9	3.6	0.4
87.5°	0.0	0.0	9.1	8.0	2.5	1.7	2.8	3.0	3.0	1.9	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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CATALOG NUMBER: GWC-AF-01-LED-E1-AFL-7027-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6	1010.6
2.5°	1014.5	993.3	954.0	913.6	876.1	831.4	800.7	777.6	750.8	743.7	759.3
5°	1021.4	981.3	897.0	805.3	719.1	623.6	550.5	492.5	440.3	422.5	438.6
7.5°	1032.5	973.0	835.3	684.3	534.3	385.2	283.1	216.0	173.1	160.3	167.2
10°	1043.5	960.6	764.0	541.0	336.1	187.5	122.1	97.5	88.4	86.4	87.5
12.5°	1052.5	944.1	677.0	384.7	179.7	100.4	79.9	75.8	74.6	74.6	75.0
15°	1058.0	919.1	573.8	244.7	103.4	75.8	69.6	68.5	68.5	68.6	69.1
17.5°	1057.5	887.3	460.8	148.1	77.3	67.2	63.6	62.5	62.3	62.7	62.9
20°	1049.7	845.8	347.5	97.6	67.4	61.3	57.6	55.8	55.5	56.0	56.3
22.5°	1034.8	794.6	248.6	75.3	60.8	55.5	51.0	49.4	49.4	49.8	50.2
25°	1016.8	731.8	169.9	63.8	54.9	49.4	45.2	43.6	44.1	45.2	45.4
27.5°	994.2	661.2	115.5	54.7	47.7	43.2	40.1	39.0	40.1	41.5	42.0
30°	975.1	587.7	82.4	47.3	40.4	37.3	35.4	35.4	36.8	39.6	40.2
32.5°	960.2	516.6	63.6	41.8	35.2	32.4	31.4	32.4	34.8	37.5	38.1
35°	958.3	457.8	53.8	37.3	31.4	28.6	28.2	30.1	32.4	34.6	34.9
37.5°	973.0	403.6	48.5	33.7	27.9	25.5	25.0	27.3	29.6	32.2	32.8
40°	1000.6	361.0	44.6	30.3	25.2	22.5	21.6	23.4	26.4	29.9	30.7
42.5°	1036.7	325.8	40.4	26.9	22.5	18.6	17.5	19.5	22.9	26.4	27.5
45°	1071.0	295.5	35.8	23.1	18.8	14.4	14.0	16.5	18.2	21.8	22.6
47.5°	1089.9	268.9	31.7	18.8	14.6	11.7	11.7	12.2	14.0	18.2	19.1
50°	1083.5	247.5	27.5	14.0	10.2	8.9	8.9	8.7	11.2	14.6	15.3
52.5°	1070.8	235.2	23.7	10.8	6.9	6.4	5.7	6.4	7.8	9.3	9.5
55°	1068.9	233.0	19.9	8.7	4.9	4.2	3.1	3.1	3.1	3.0	2.5
57.5°	1083.7	236.5	16.7	6.9	3.6	2.8	1.7	0.0	0.0	0.0	0.0
60°	1099.0	240.0	14.4	4.9	2.5	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1073.6	232.0	12.0	3.0	1.9	0.7	0.0	0.0	0.0	0.0	0.0
65°	943.0	197.5	9.5	2.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	670.8	132.1	6.4	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	306.1	55.2	4.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	65.5	17.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.3	12.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.2	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.2	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)