

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: P200573

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-AFL-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

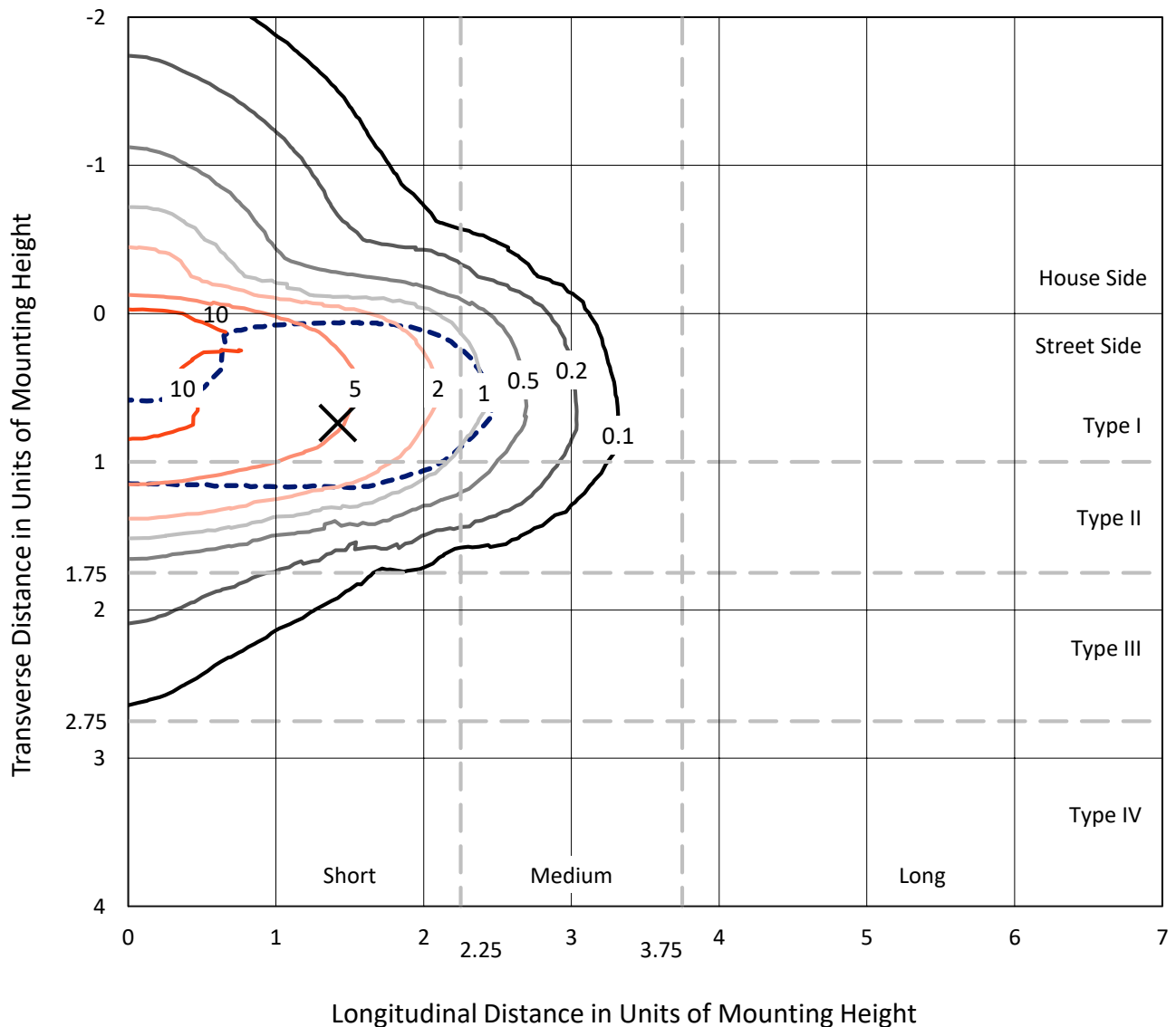
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

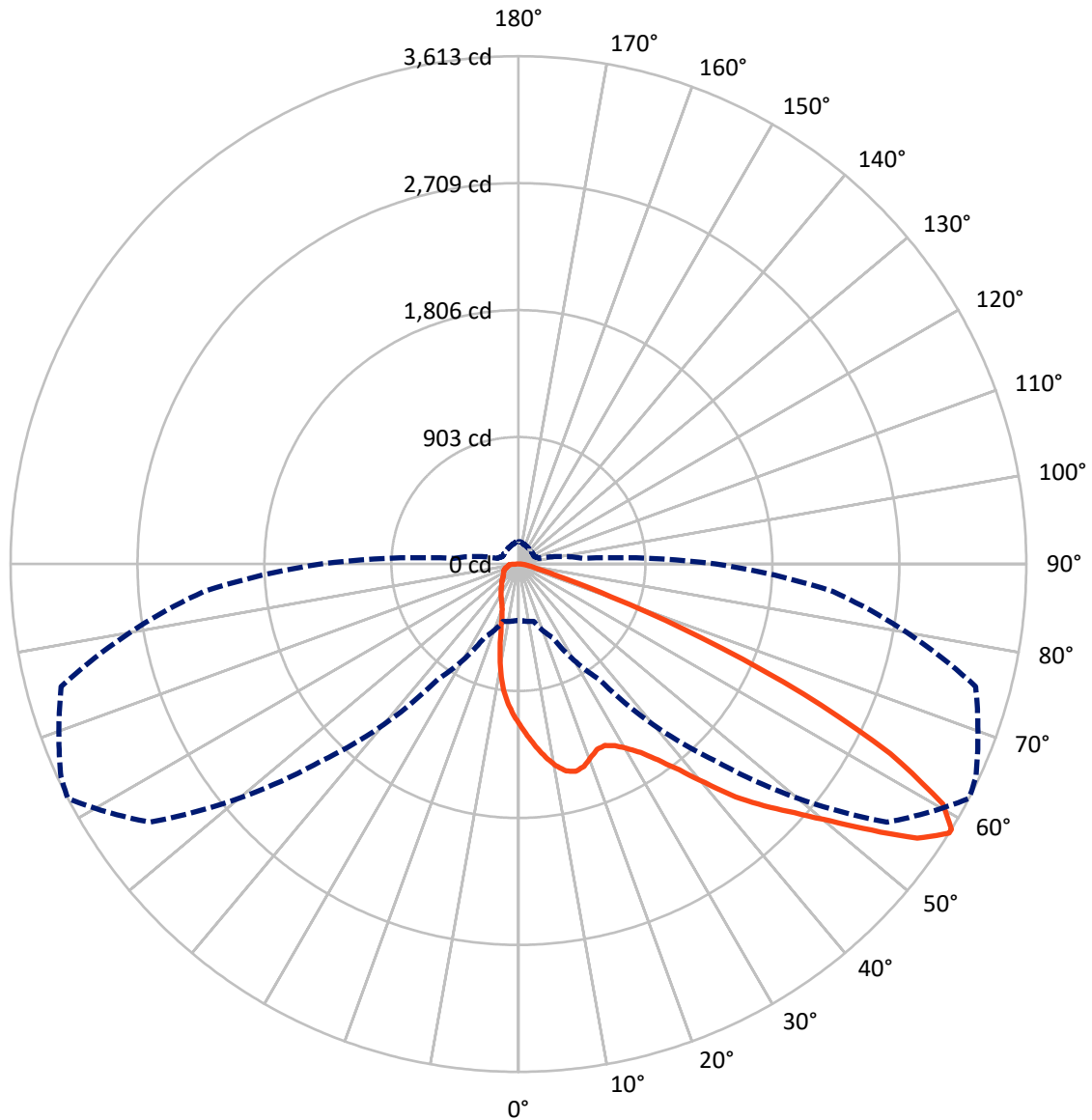
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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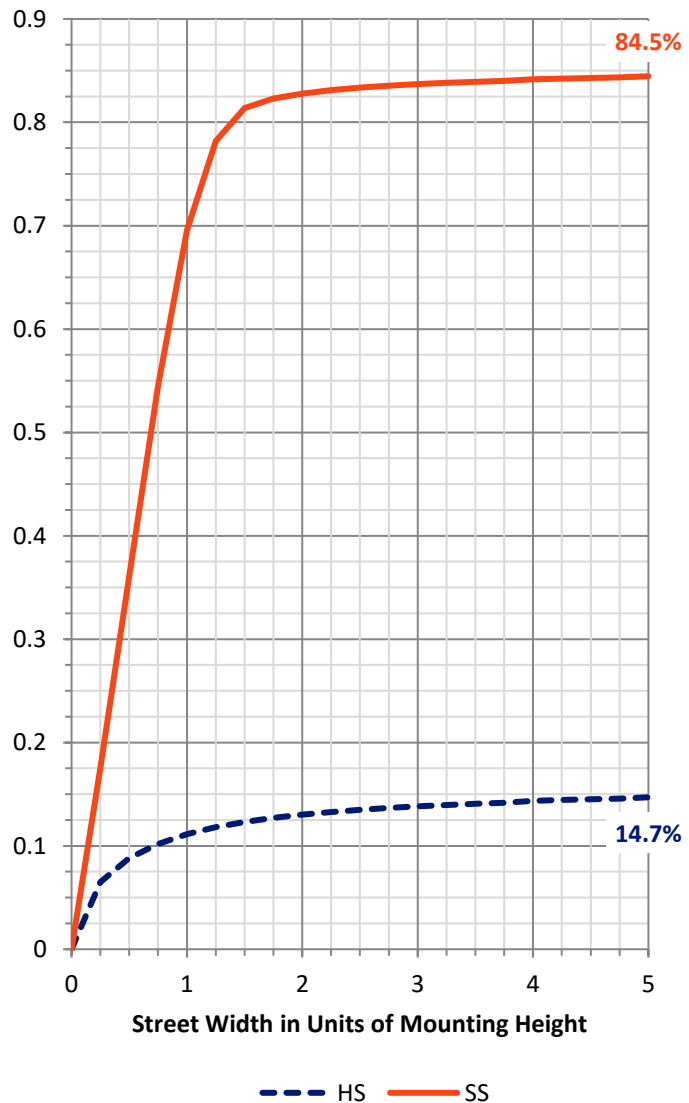
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	655.8	0.0	655.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3644.2	0.0	3644.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	4300.0	0.0	4300.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.4
10°-20°	261.1	6.1
20°-30°	422.1	9.8
30°-40°	670.1	15.6
40°-50°	980.5	22.8
50°-60°	1025.5	23.8
60°-70°	605.9	14.1
70°-80°	170.7	4.0
80°-90°	62.0	1.4
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°	4300.0	100.0
0°-180°	4300.0	100.0



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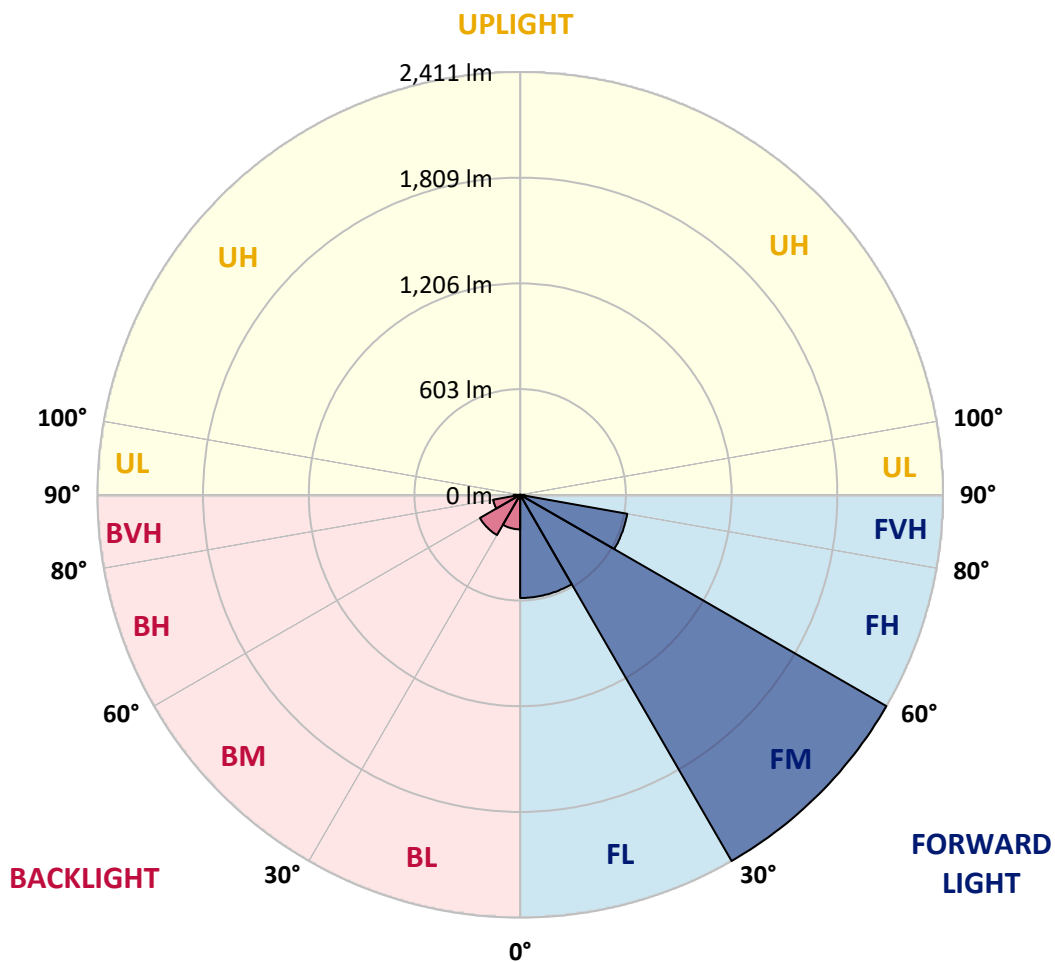
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.3	13.7			
FM (30°-60°)	2411.4	56.1			
FH (60°-80°)	620.1	14.4			G0/660
FVH (80°-90°)	24.4	0.6			G1/100
BL (0°-30°)	197.1	4.6	B1/500		
BM (30°-60°)	264.7	6.2	B1/1000		
BH (60°-80°)	156.5	3.6	B1/500		G1/500
BVH (80°-90°)	37.5	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2
2.5°	1305.2	1294.7	1288.0	1282.1	1274.4	1258.0	1236.0	1222.0	1214.9	1190.8	1162.3
5°	1433.2	1423.9	1417.0	1409.1	1395.3	1369.6	1334.0	1305.6	1291.6	1243.4	1186.3
7.5°	1403.2	1407.1	1419.0	1439.9	1457.7	1454.2	1422.4	1386.4	1368.0	1301.0	1214.3
10°	1222.6	1229.3	1249.9	1298.7	1377.7	1458.7	1483.4	1458.5	1439.9	1357.9	1243.0
12.5°	1186.3	1186.1	1187.8	1200.7	1247.7	1361.7	1485.4	1510.5	1499.4	1412.1	1272.4
15°	1201.1	1201.5	1200.3	1205.8	1220.4	1265.5	1423.5	1530.6	1538.5	1466.8	1302.8
17.5°	1240.0	1239.0	1234.3	1234.3	1239.6	1257.2	1350.6	1511.9	1548.4	1515.2	1329.5
20°	1305.2	1300.5	1288.2	1276.9	1271.2	1280.7	1320.6	1469.0	1531.2	1557.5	1351.6
22.5°	1384.2	1380.5	1360.5	1336.2	1316.5	1316.3	1336.0	1431.6	1501.4	1597.4	1370.2
25°	1486.2	1480.4	1450.6	1411.7	1377.3	1364.1	1369.6	1429.7	1485.2	1640.7	1386.8
27.5°	1606.1	1595.4	1560.1	1504.0	1453.4	1426.9	1419.0	1462.7	1500.0	1694.4	1409.9
30°	1751.5	1739.1	1694.0	1620.9	1549.4	1505.9	1489.1	1521.3	1549.0	1759.8	1446.9
32.5°	1916.9	1899.1	1846.8	1766.3	1672.3	1605.9	1578.6	1598.6	1620.7	1838.5	1493.3
35°	2145.5	2124.3	2048.7	1937.6	1831.5	1740.1	1696.4	1711.0	1732.4	1956.0	1560.3
37.5°	2301.4	2291.9	2241.7	2137.2	2021.8	1916.7	1849.1	1857.6	1869.7	2102.8	1646.2
40°	2300.0	2303.9	2304.9	2305.9	2227.3	2126.7	2054.0	2045.1	2042.6	2264.0	1743.8
42.5°	2184.8	2200.6	2251.6	2355.1	2402.9	2356.7	2290.1	2264.4	2251.6	2453.9	1847.3
45°	2008.4	2016.9	2112.5	2314.6	2492.8	2584.5	2534.1	2453.1	2430.0	2628.4	1933.1
47.5°	1917.5	1926.8	1987.0	2207.3	2491.8	2768.6	2797.7	2643.4	2602.1	2780.3	2007.2
50°	1701.1	1720.5	1796.2	2020.6	2400.8	2853.2	3073.3	2870.2	2784.8	2928.1	2081.5
52.5°	1303.6	1333.6	1418.4	1713.6	2170.2	2811.3	3293.8	3145.2	3024.5	3081.2	2145.3
55°	822.3	844.6	915.8	1210.2	1736.1	2593.2	3377.4	3442.6	3335.3	3226.2	2200.6
57.5°	447.1	457.0	483.7	668.2	1129.2	2111.1	3255.5	3611.9	3567.3	3349.3	2242.3
58°	400.1	406.8	423.4	579.1	1001.5	1979.3	3201.5	3612.5	3590.2	3367.3	2245.5
60°	296.8	293.4	278.6	330.5	557.4	1367.4	2874.7	3467.9	3533.3	3389.4	2229.7
62.5°	260.8	252.5	222.3	218.9	271.1	629.9	2199.6	2970.6	3125.1	3263.4	2133.8
65°	245.0	236.1	197.2	184.7	195.6	266.5	1295.7	2227.9	2421.7	2881.5	1888.4
67.5°	233.3	221.7	181.2	164.0	164.8	176.2	519.4	1403.2	1621.3	2187.8	1468.8
70°	221.9	209.4	167.7	147.8	143.2	139.3	206.5	702.4	900.2	1381.9	936.5
72.5°	209.8	197.4	155.7	135.1	125.9	113.2	134.9	287.3	401.3	653.8	424.8
75°	192.2	181.0	143.8	123.7	110.8	93.7	101.8	150.0	180.0	260.4	204.7
77.5°	170.5	161.4	130.4	114.4	98.2	76.1	78.4	104.1	115.4	149.0	121.7
80°	122.5	125.7	116.0	102.9	87.5	61.8	60.1	75.9	82.0	95.8	79.2
82.5°	86.1	87.9	96.0	84.0	72.3	48.6	44.3	53.5	57.1	63.0	42.7
85°	59.3	57.3	65.8	58.5	52.2	32.4	30.4	36.2	38.5	39.1	22.1
87.5°	35.6	35.6	38.1	31.4	28.1	16.8	16.4	20.7	22.1	21.1	12.1
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°	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2	1142.2
2.5°	1145.2	1130.9	1100.3	1075.8	1044.8	1012.6	994.6	975.4	962.2	952.7	967.9
5°	1154.0	1124.6	1061.4	1001.5	935.3	866.4	814.2	765.6	731.8	710.7	730.6
7.5°	1167.7	1122.6	1021.9	919.5	800.6	686.0	583.6	519.4	481.9	463.5	475.0
10°	1183.5	1119.3	975.6	808.3	638.2	493.9	417.3	391.4	382.9	379.5	381.1
12.5°	1196.7	1112.4	918.7	673.9	479.3	390.0	367.9	367.3	369.1	369.5	370.1
15°	1206.0	1102.3	834.2	533.7	383.3	355.4	354.1	357.8	361.2	362.6	363.5
17.5°	1212.3	1081.5	738.9	422.0	343.4	338.6	341.4	346.0	349.7	350.7	351.5
20°	1211.7	1050.9	625.3	351.9	321.7	321.7	326.6	330.3	330.5	329.2	329.8
22.5°	1205.4	1009.0	515.1	314.7	302.5	306.0	310.8	307.4	293.2	283.9	284.5
25°	1194.9	959.0	420.8	291.0	284.7	290.8	289.3	263.4	243.2	234.1	234.1
27.5°	1185.5	899.8	348.3	270.3	266.9	274.4	249.3	225.8	217.3	213.0	211.6
30°	1178.9	836.1	299.9	250.5	250.1	244.6	216.3	209.8	208.4	204.9	203.7
32.5°	1180.5	771.5	268.9	233.1	234.5	209.4	200.5	201.9	200.7	197.0	195.4
35°	1193.8	710.1	248.6	217.3	213.0	189.1	191.1	193.8	193.4	188.3	186.7
37.5°	1217.7	652.0	235.3	204.1	185.9	179.0	182.2	186.3	185.3	181.8	180.6
40°	1242.8	597.3	224.4	193.8	169.9	172.1	174.9	177.2	178.2	179.2	178.4
42.5°	1267.3	540.2	211.0	183.2	163.2	165.6	166.8	169.1	174.5	178.4	178.2
45°	1281.9	486.6	197.2	168.3	157.9	159.4	158.5	163.0	169.7	176.0	176.2
47.5°	1298.1	444.9	186.3	154.5	152.9	153.9	151.5	155.9	162.0	169.7	170.5
50°	1317.8	420.0	177.6	143.6	146.0	146.0	145.4	149.4	157.9	166.8	168.5
52.5°	1340.0	415.1	170.3	135.7	139.1	138.9	139.5	145.6	154.9	163.6	165.0
55°	1367.2	428.3	162.4	129.8	132.4	133.2	135.3	142.1	150.0	160.0	160.6
57.5°	1398.8	455.0	156.1	125.1	126.3	129.0	132.2	138.5	147.0	157.9	158.5
58°	1404.0	460.6	155.1	124.7	125.1	128.2	131.8	137.9	146.4	158.3	158.9
60°	1404.2	479.5	152.9	122.9	120.5	125.5	129.6	135.7	145.4	159.8	161.2
62.5°	1354.4	479.3	151.3	120.3	115.6	121.9	126.6	133.6	144.4	163.2	166.0
65°	1192.6	435.5	143.6	116.2	111.8	118.7	123.9	132.2	147.2	178.2	180.0
67.5°	932.8	357.0	129.2	110.6	106.7	115.4	122.3	132.0	150.2	181.6	182.8
70°	616.8	267.1	113.4	104.1	101.4	111.6	123.1	138.9	146.8	174.3	171.1
72.5°	320.1	187.5	100.6	96.0	95.4	108.1	134.9	138.1	143.4	164.0	160.0
75°	168.1	130.2	89.5	87.1	88.1	107.3	159.2	134.4	138.9	156.9	164.6
77.5°	102.9	105.1	80.0	79.0	81.0	104.9	158.9	129.8	132.4	144.4	152.9
80°	68.8	85.2	72.7	72.9	74.3	96.0	142.8	122.5	124.5	136.5	145.2
82.5°	43.5	50.4	66.0	69.5	67.6	79.2	121.3	111.6	114.4	156.1	165.0
85°	22.1	31.6	57.3	66.8	60.9	55.5	98.4	97.8	99.2	112.6	117.6
87.5°	10.1	17.4	44.7	58.3	46.0	34.6	71.5	72.5	78.2	80.0	80.0
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)