

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: P269994

Luminaire Tested: **GPC-AF-01-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

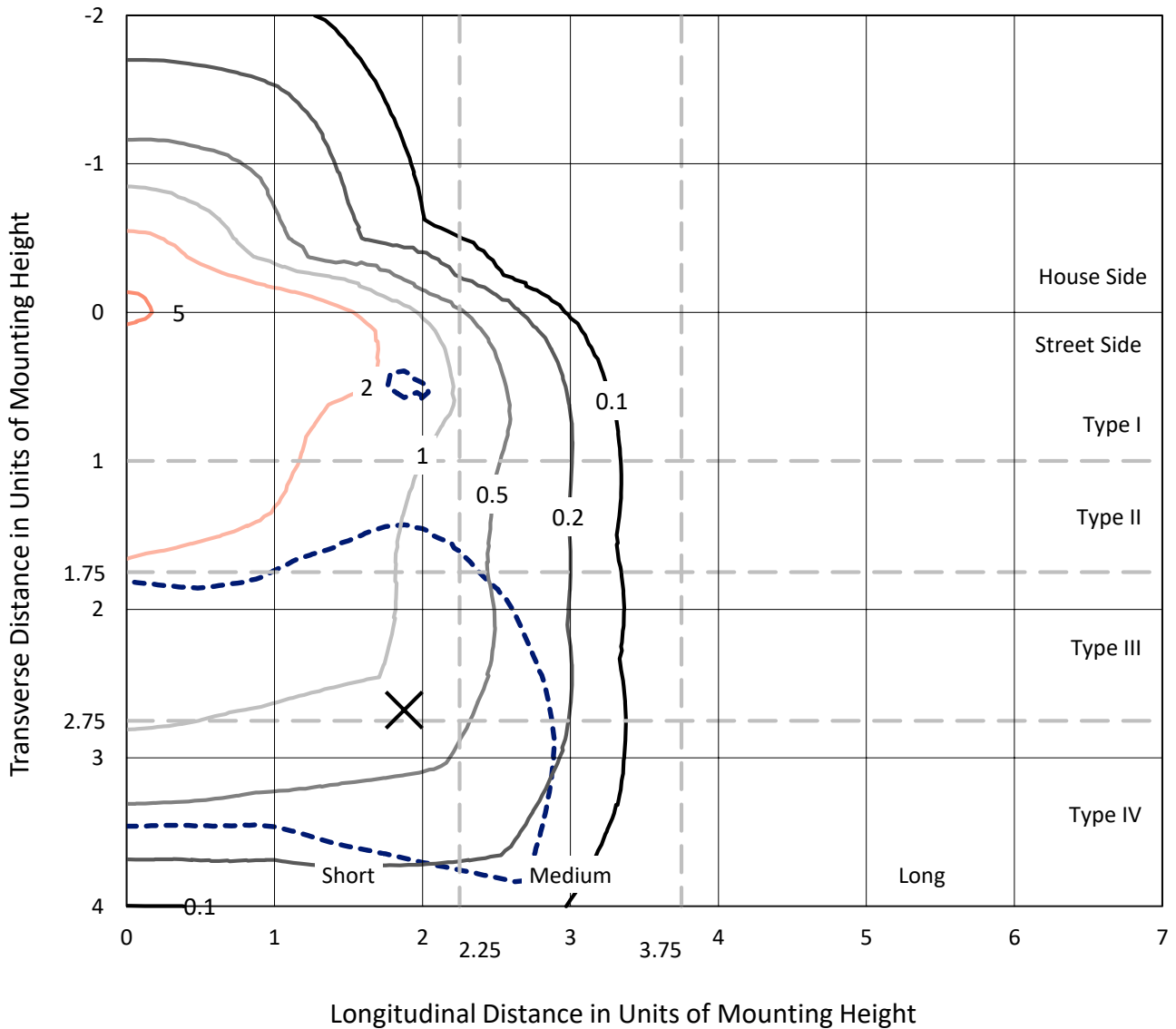
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

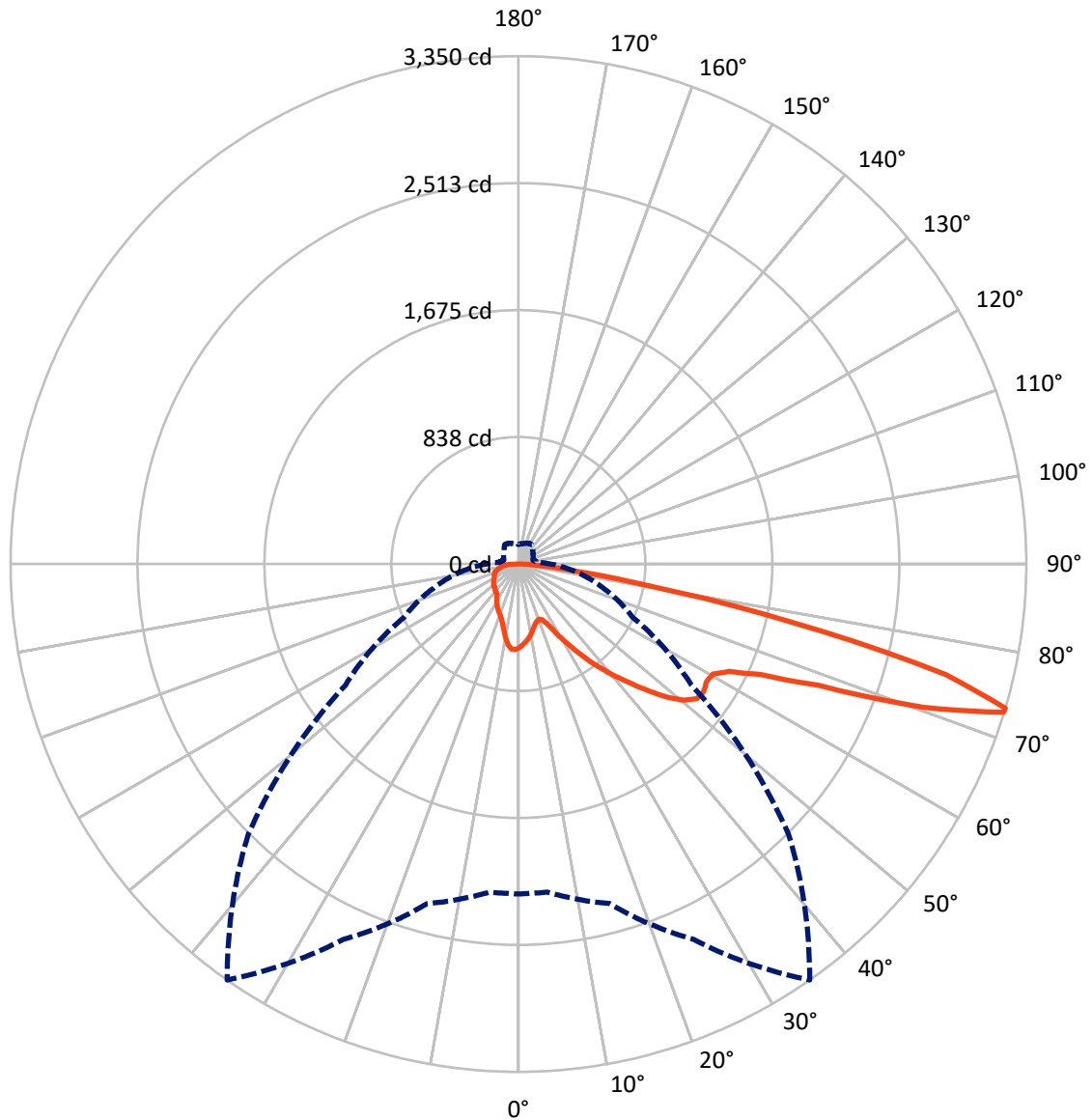
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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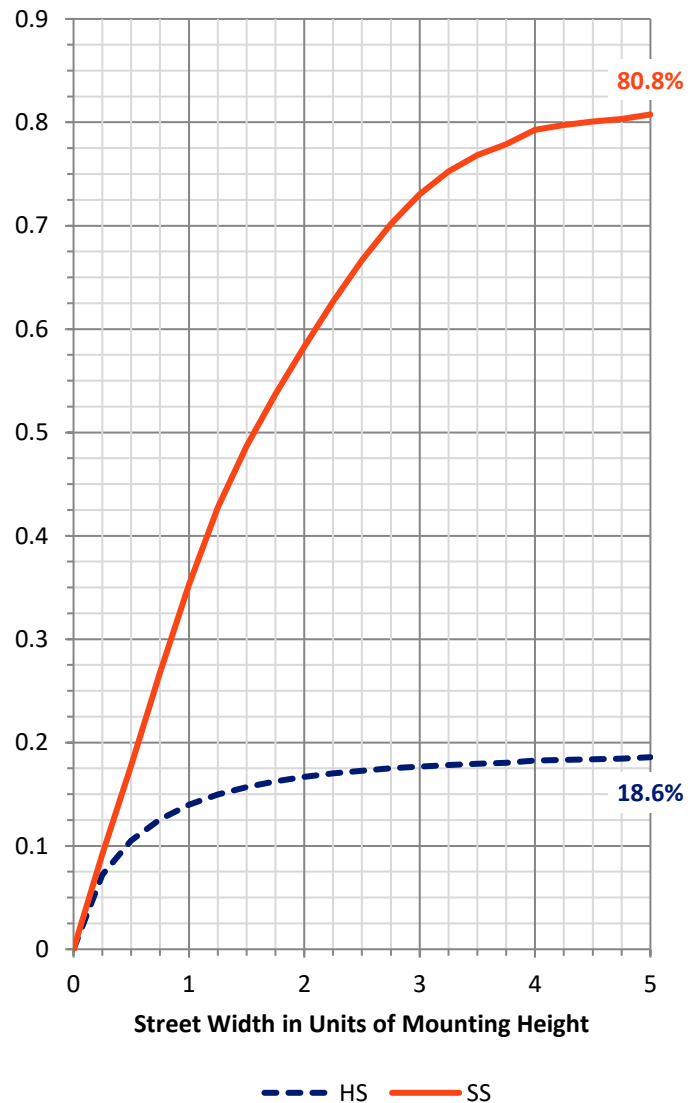
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	698.2	0.0	698.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	2962.7	0.0	2962.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	3660.9	0.0	3660.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.4
10°-20°	124.8	3.4
20°-30°	201.8	5.5
30°-40°	338.4	9.2
40°-50°	521.7	14.3
50°-60°	699.9	19.1
60°-70°	932.4	25.5
70°-80°	711.2	19.4
80°-90°	80.6	2.2
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°	3660.9	100.0
0°-180°	3660.9	100.0



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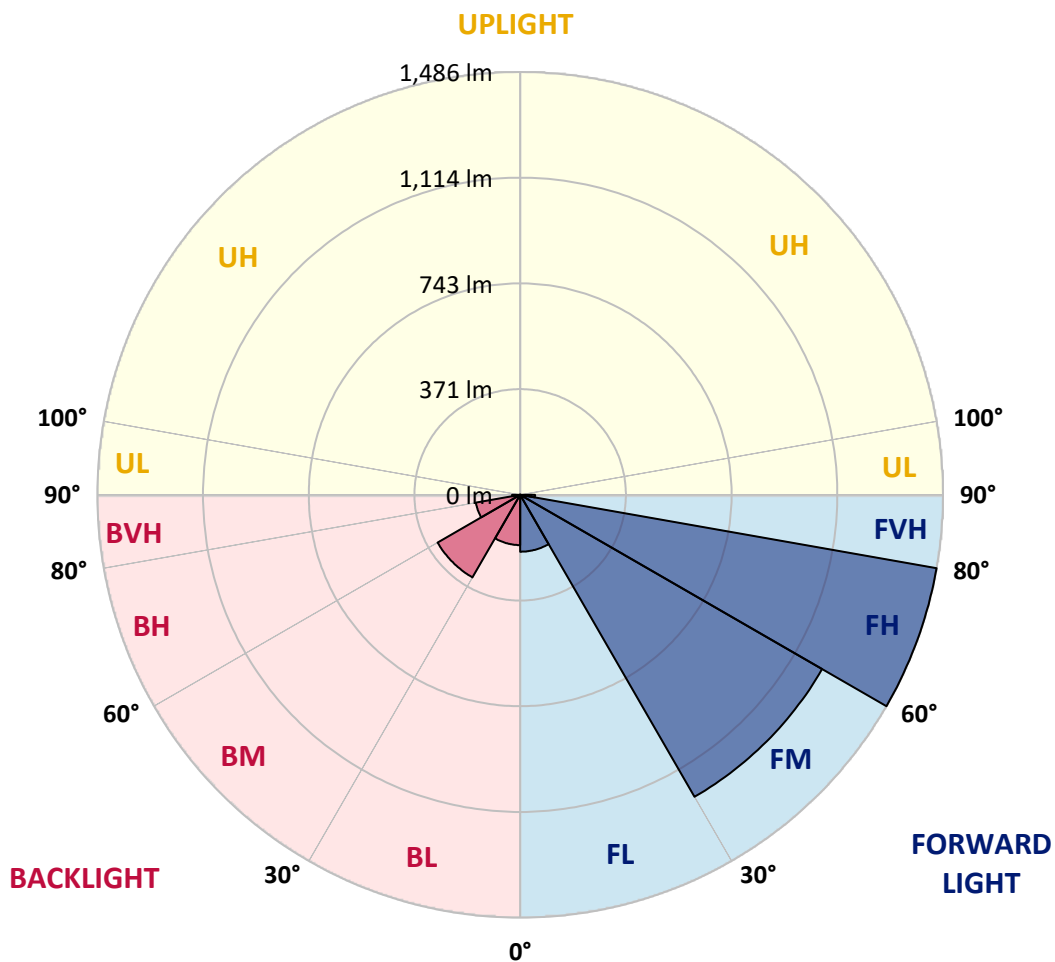
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.0	5.5			
FM	(30°-60°)	1225.0	33.5			
FH	(60°-80°)	1485.6	40.6			G1/1800
FVH	(80°-90°)	52.1	1.4			G1/100
BL	(0°-30°)	176.7	4.8	B1/500		
BM	(30°-60°)	335.1	9.2	B1/1000		
BH	(60°-80°)	158.0	4.3	B1/500		G1/500
BVH	(80°-90°)	28.5	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	530.8	531.7	530.5	532.2	534.9	537.5	539.5	542.3	545.5	549.9	551.0
5°	505.7	507.4	507.4	510.1	515.3	519.8	524.2	528.7	535.3	542.8	545.9
7.5°	478.3	479.2	480.9	485.1	492.5	498.9	504.8	512.4	521.5	531.4	536.7
10°	445.3	446.5	449.1	455.0	465.1	473.9	482.6	492.8	504.4	516.9	523.5
12.5°	421.9	421.6	422.7	427.1	435.8	446.6	459.3	472.1	486.4	501.1	509.1
15°	413.9	412.1	408.0	407.0	411.8	422.7	437.0	453.0	470.2	487.7	497.8
17.5°	418.9	415.6	404.5	396.4	395.8	404.0	419.2	437.2	456.9	478.3	490.8
20°	450.0	442.0	414.7	396.0	389.3	393.5	406.8	425.7	449.1	477.4	493.4
22.5°	523.9	512.4	454.5	419.5	397.5	392.6	402.6	422.8	450.0	488.4	508.8
25°	631.7	615.1	522.6	478.2	432.9	406.7	408.9	429.7	462.4	513.7	538.4
27.5°	716.8	706.0	611.7	561.0	497.2	444.7	429.5	446.8	487.9	555.2	580.3
30°	767.4	760.9	707.1	654.9	579.2	505.0	468.8	479.2	527.8	612.6	633.5
32.5°	826.1	822.2	795.9	747.8	667.9	584.5	531.3	527.6	581.3	681.8	691.2
35°	886.9	885.6	870.2	835.8	763.0	689.3	614.1	589.1	639.5	753.5	747.5
37.5°	943.5	941.5	932.5	912.4	862.6	801.8	698.4	652.2	702.1	822.0	795.4
40°	1047.9	1031.3	1000.5	985.4	963.1	896.6	765.4	711.1	767.2	887.4	837.0
42.5°	1175.0	1148.0	1090.7	1069.9	1066.7	971.2	811.2	768.3	832.8	952.4	877.7
45°	1275.0	1249.6	1200.1	1174.1	1185.7	1039.0	857.1	829.2	900.3	1020.4	919.9
47.5°	1381.7	1341.9	1276.5	1284.3	1309.6	1102.9	903.9	894.8	974.3	1096.6	972.1
50°	1385.5	1355.2	1326.4	1373.7	1413.2	1161.9	962.4	963.6	1064.9	1192.3	1041.5
52.5°	1305.1	1298.7	1344.1	1418.6	1475.3	1208.5	1029.0	1034.6	1180.7	1302.4	1117.8
55°	1277.0	1269.7	1322.2	1403.0	1483.8	1246.9	1101.2	1111.5	1320.8	1418.3	1192.1
57.5°	1345.7	1329.2	1332.7	1395.5	1463.2	1289.2	1180.1	1200.6	1473.0	1519.8	1239.9
60°	1537.2	1502.2	1435.9	1434.2	1474.3	1352.5	1271.0	1296.2	1631.3	1568.4	1221.2
62.5°	1806.0	1771.1	1646.6	1565.6	1559.5	1457.0	1382.9	1389.6	1722.7	1502.5	1107.6
65°	2097.0	2065.7	1926.7	1812.2	1756.9	1629.9	1512.7	1431.2	1692.8	1321.6	908.5
67.5°	2450.1	2416.6	2297.1	2191.3	2138.2	1909.1	1604.1	1391.4	1503.1	1023.9	653.1
70°	2697.3	2662.8	2615.8	2701.5	2831.3	2311.8	1615.8	1229.1	1122.7	680.6	393.1
72.5°	2374.8	2358.9	2444.8	2805.4	3346.5	2556.1	1460.6	894.8	652.1	361.3	227.5
73°	2176.0	2172.5	2319.1	2732.6	3350.3	2518.6	1392.6	831.7	559.3	319.5	208.0
75°	982.6	1010.9	1332.2	2087.1	2910.8	2075.4	980.1	477.1	315.9	220.9	157.1
77.5°	236.2	246.0	416.9	991.2	1838.2	1236.7	444.1	236.0	201.9	155.9	114.7
80°	100.6	103.9	160.4	366.1	865.4	498.0	204.6	158.0	139.7	108.9	80.4
82.5°	56.0	59.4	91.1	166.1	349.4	169.8	124.9	110.0	91.9	65.5	52.2
85°	31.6	33.5	53.3	92.9	148.0	68.2	74.6	73.1	51.8	33.7	25.7
87.5°	14.9	16.2	25.7	43.1	58.0	26.7	38.0	41.9	32.5	20.7	13.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	552.2	555.3	559.0	561.0	562.8	564.9	567.0	567.0	567.3	567.5
5°	548.3	554.9	560.6	563.1	563.6	563.6	563.1	560.4	557.8	558.8
7.5°	540.2	549.8	554.7	553.7	547.1	539.3	532.9	525.0	520.8	520.2
10°	528.7	539.5	540.4	531.6	515.1	498.6	484.8	471.5	465.2	463.5
12.5°	515.7	525.8	520.2	502.2	475.6	451.5	434.1	420.5	414.6	413.0
15°	505.4	512.4	498.0	469.5	436.1	410.6	396.2	386.2	382.0	380.8
17.5°	499.9	501.3	475.4	436.8	401.4	380.2	371.1	366.4	364.8	364.0
20°	502.6	492.8	453.7	406.5	372.8	358.0	355.8	354.7	354.2	353.8
22.5°	515.7	490.1	433.9	377.6	348.0	341.4	343.2	343.1	342.7	342.3
25°	539.3	492.5	414.6	350.2	327.1	325.5	328.8	328.8	327.3	327.3
27.5°	570.5	497.2	392.9	324.2	307.9	308.2	310.6	309.9	308.4	307.3
30°	608.4	500.1	367.5	300.8	290.2	289.6	290.2	287.3	282.4	282.2
32.5°	647.3	496.5	338.2	280.0	271.5	269.9	269.3	265.1	259.7	258.1
35°	682.4	482.8	308.4	263.6	253.5	250.0	252.5	251.0	246.1	244.9
37.5°	708.1	457.7	281.4	248.9	240.7	239.8	241.4	242.0	236.2	234.8
40°	725.3	423.7	258.4	236.7	238.2	234.8	229.5	226.0	224.1	223.6
42.5°	739.2	388.2	239.0	230.9	238.7	229.1	217.7	211.7	214.9	216.2
45°	755.2	353.6	222.9	223.6	236.2	222.4	209.3	203.6	204.9	205.2
47.5°	777.3	311.4	205.5	212.0	227.4	217.7	204.3	196.0	190.3	187.6
50°	807.7	261.4	187.3	199.1	218.6	214.4	196.4	187.6	176.8	174.5
52.5°	828.7	214.9	172.5	188.1	210.9	207.8	190.0	178.7	167.4	165.3
55°	817.3	178.5	159.4	176.0	200.9	199.6	184.8	169.5	160.6	158.9
57.5°	760.1	155.3	149.5	164.6	188.3	192.4	177.8	161.8	155.3	154.1
60°	651.2	141.0	143.1	156.8	178.0	185.5	170.7	157.6	153.3	152.4
62.5°	505.2	131.3	138.3	151.2	170.1	180.6	166.8	157.1	155.3	154.4
65°	361.9	123.5	133.3	145.5	163.0	176.0	165.5	156.2	156.7	155.8
67.5°	246.0	116.7	127.1	139.2	155.9	171.9	163.5	153.8	158.2	157.2
70°	172.1	110.0	120.0	131.2	147.1	166.2	160.0	150.1	149.7	145.5
72.5°	134.2	101.2	110.0	120.0	136.0	158.5	152.9	141.8	136.1	131.7
73°	128.2	99.2	107.5	117.5	133.5	156.5	151.1	139.5	133.0	129.0
75°	106.0	90.0	97.7	106.4	122.9	147.3	141.6	129.3	120.9	118.4
77.5°	83.4	77.1	84.4	92.3	108.2	133.9	127.5	115.7	111.1	109.1
80°	61.8	63.8	70.2	77.3	93.9	119.7	113.9	102.1	122.4	117.5
82.5°	43.4	48.4	54.3	60.6	78.7	105.8	98.9	86.6	89.7	74.5
85°	25.7	31.6	37.3	42.7	56.9	87.8	81.6	69.1	56.7	54.0
87.5°	14.9	17.5	19.1	24.9	39.0	66.0	57.5	51.2	29.4	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)