

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: P191509

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191509
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: GLEON-AF-01-LED-E1-T4FT-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 4225.8 lumens
Efficiency: N/A
Efficacy: 124.3 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

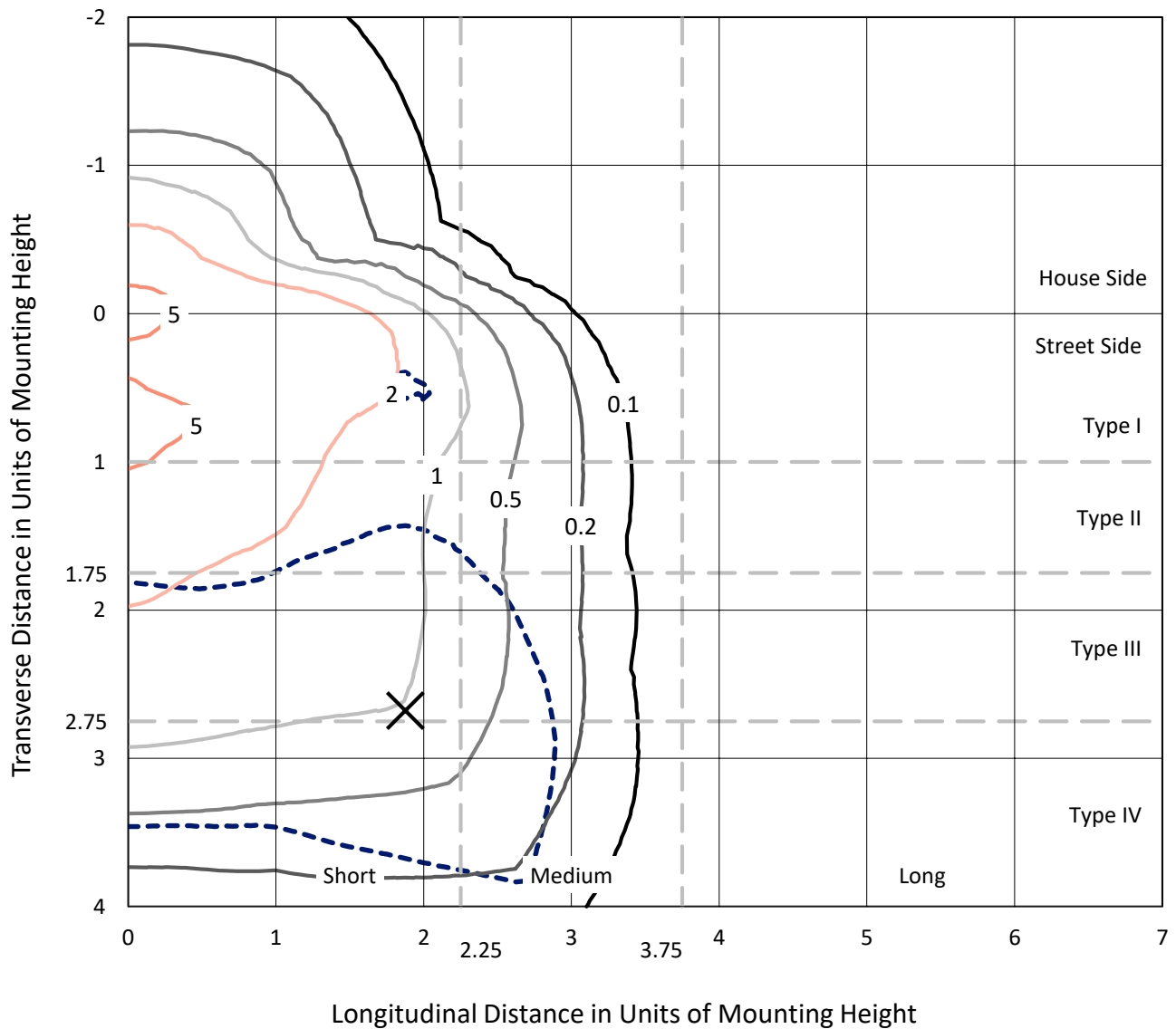
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

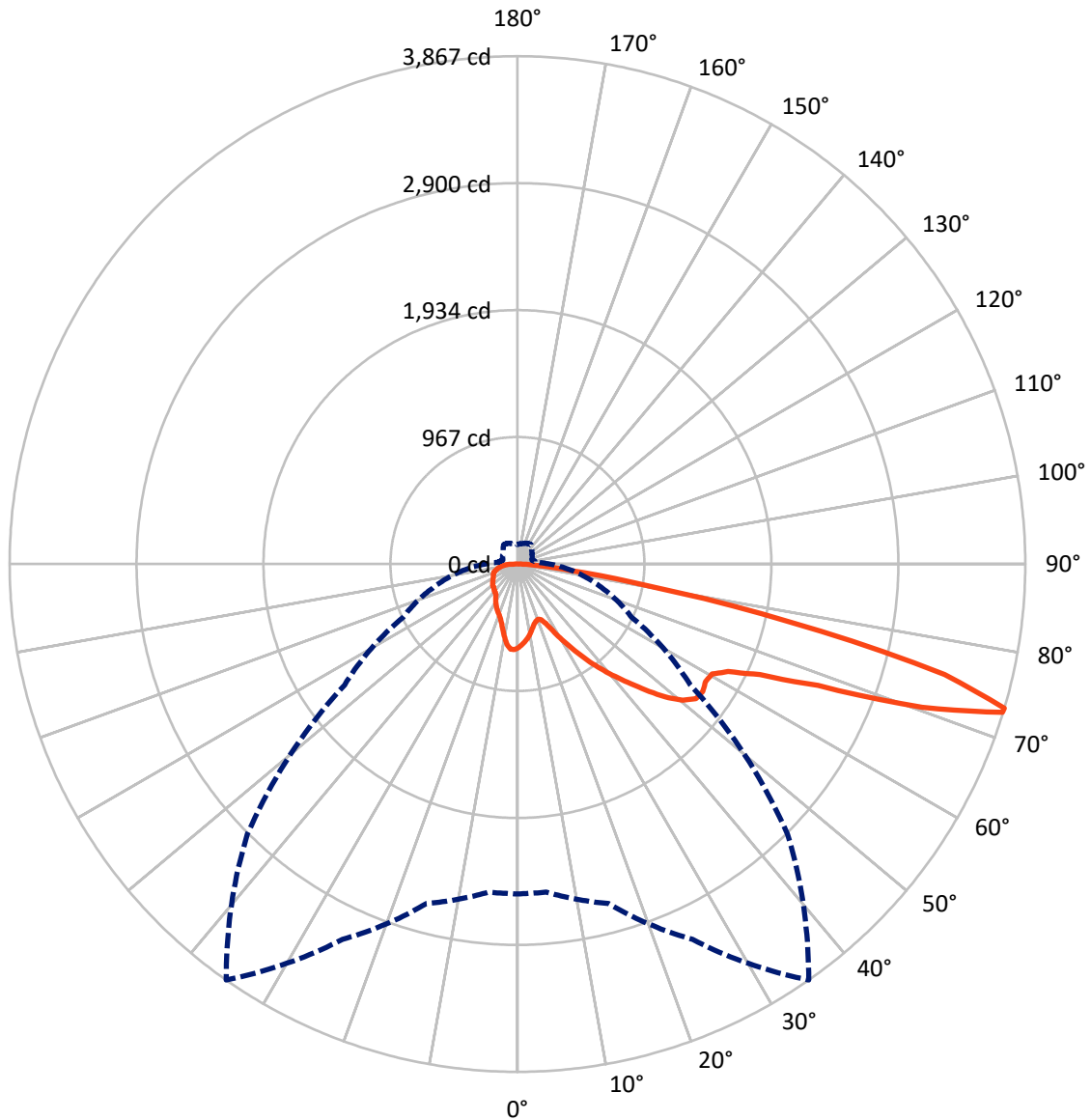
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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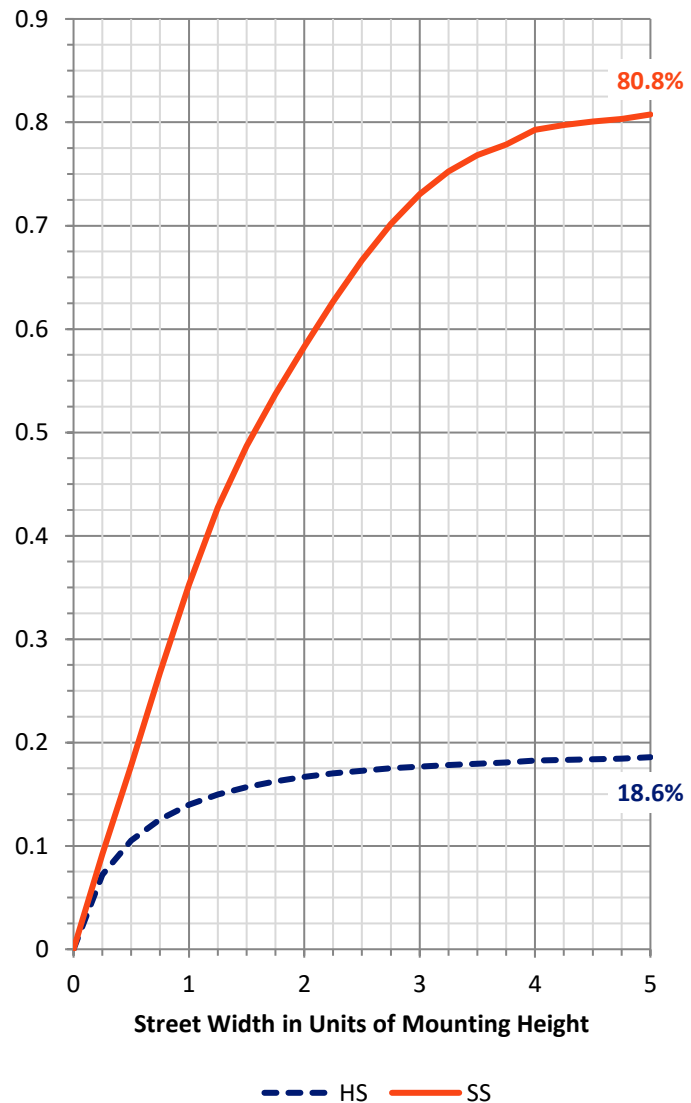
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	806.0	0.0	806.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3419.8	0.0	3419.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	4225.8	0.0	4225.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.4
10°-20°	144.1	3.4
20°-30°	233.0	5.5
30°-40°	390.7	9.2
40°-50°	602.2	14.3
50°-60°	807.9	19.1
60°-70°	1076.3	25.5
70°-80°	820.9	19.4
80°-90°	93.0	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°	4225.8	100.0
0°-180°	4225.8	100.0



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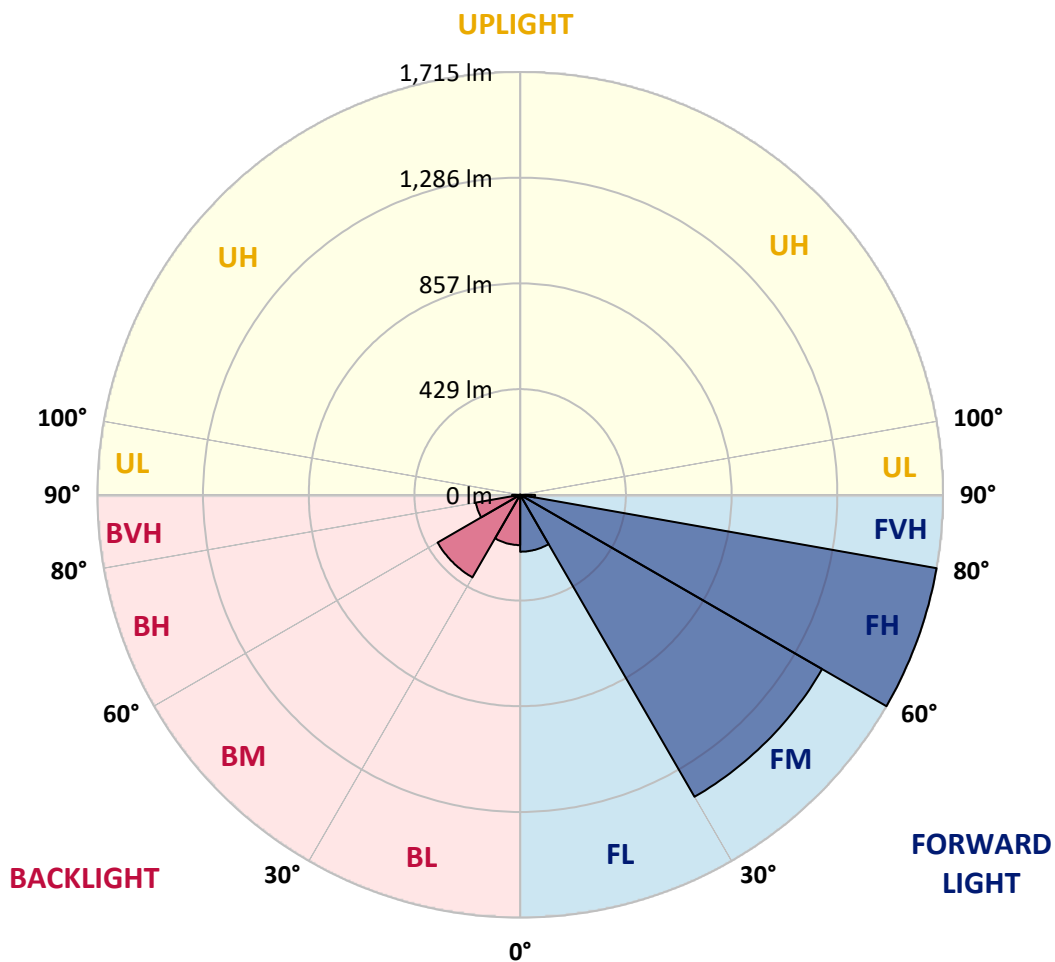
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.9	5.5			
FM	(30°-60°)	1414.0	33.5			
FH	(60°-80°)	1714.8	40.6			G1/1800
FVH	(80°-90°)	60.1	1.4			G1/100
BL	(0°-30°)	204.0	4.8	B1/500		
BM	(30°-60°)	386.8	9.2	B1/1000		
BH	(60°-80°)	182.4	4.3	B1/500		G1/500
BVH	(80°-90°)	32.9	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°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	612.6	613.9	612.4	614.3	617.4	620.5	622.8	626.0	629.7	634.7	636.0
5°	583.8	585.6	585.6	588.9	594.7	600.1	605.0	610.2	618.0	626.7	630.1
7.5°	552.2	553.2	555.1	559.9	568.5	575.9	582.8	591.4	601.9	613.5	619.5
10°	514.0	515.5	518.3	525.2	536.7	547.1	557.0	568.8	582.2	596.6	604.4
12.5°	487.0	486.6	487.8	493.0	503.1	515.7	530.1	545.0	561.5	578.4	587.7
15°	477.9	475.7	471.0	469.7	475.3	487.8	504.5	522.9	542.7	562.9	574.5
17.5°	483.5	479.8	467.0	457.6	456.7	466.4	484.0	504.7	527.4	552.2	566.6
20°	519.2	510.1	478.7	457.0	449.5	454.2	469.5	491.5	518.3	551.2	569.6
22.5°	604.8	591.4	524.6	484.2	458.8	453.2	464.7	488.0	519.2	563.7	587.3
25°	729.2	710.0	603.3	552.0	499.6	469.3	472.0	495.9	533.7	593.0	621.3
27.5°	827.4	815.0	706.1	647.5	573.9	513.2	495.7	515.9	563.1	640.9	669.8
30°	885.8	878.3	816.2	756.0	668.6	583.0	541.2	553.2	609.2	707.2	731.1
32.5°	953.6	949.1	918.6	863.3	770.9	674.7	613.3	609.0	670.9	787.0	797.9
35°	1023.8	1022.3	1004.5	964.7	880.8	795.7	708.8	680.1	738.1	869.7	862.9
37.5°	1089.1	1086.7	1076.3	1053.2	995.5	925.6	806.2	752.9	810.5	948.9	918.3
40°	1209.4	1190.4	1154.9	1137.4	1111.6	1034.9	883.5	820.8	885.6	1024.4	966.2
42.5°	1356.1	1325.1	1258.9	1235.0	1231.3	1121.2	936.3	886.8	961.3	1099.3	1013.2
45°	1471.6	1442.5	1385.4	1355.2	1368.5	1199.3	989.3	957.2	1039.2	1177.8	1061.7
47.5°	1594.8	1549.0	1473.5	1482.6	1511.8	1273.2	1043.3	1032.9	1124.6	1265.7	1122.0
50°	1599.3	1564.2	1531.1	1585.7	1631.1	1341.2	1110.8	1112.3	1229.2	1376.3	1202.2
52.5°	1506.5	1499.0	1551.6	1637.4	1703.0	1394.9	1187.7	1194.2	1362.9	1503.3	1290.2
55°	1474.1	1465.6	1526.2	1619.3	1712.7	1439.4	1271.1	1282.9	1524.6	1637.2	1376.1
57.5°	1553.2	1534.3	1538.4	1610.8	1689.0	1488.1	1362.1	1385.8	1700.3	1754.4	1431.2
60°	1774.4	1734.0	1657.3	1655.5	1701.8	1561.1	1467.2	1496.2	1882.9	1810.3	1409.7
62.5°	2084.7	2044.3	1900.6	1807.0	1800.2	1681.6	1596.2	1604.0	1988.5	1734.4	1278.5
65°	2420.5	2384.4	2223.9	2091.8	2028.1	1881.3	1746.2	1652.1	1954.0	1525.6	1048.7
67.5°	2828.3	2789.5	2651.5	2529.6	2468.2	2203.6	1851.5	1605.9	1735.0	1181.8	753.9
70°	3113.4	3073.8	3019.3	3118.2	3268.1	2668.5	1865.1	1418.6	1295.9	785.5	453.8
72.5°	2741.4	2722.9	2822.1	3238.4	3863.0	2950.6	1685.9	1032.9	752.7	417.1	262.6
73°	2511.7	2507.6	2676.9	3154.2	3867.3	2907.1	1607.4	960.0	645.5	368.9	240.1
75°	1134.1	1166.9	1537.8	2409.2	3359.9	2395.5	1131.3	550.8	364.7	254.9	181.2
77.5°	272.5	283.9	481.1	1144.1	2121.8	1427.6	512.6	272.3	233.1	180.0	132.3
80°	116.1	119.9	185.3	422.7	999.0	574.9	236.2	182.4	161.3	125.6	92.8
82.5°	64.5	68.6	105.2	191.8	403.2	196.0	144.0	127.1	106.2	75.7	60.3
85°	36.5	38.8	61.5	107.1	170.8	78.8	86.2	84.4	59.8	39.0	29.7
87.5°	17.3	18.7	29.7	49.7	67.0	30.9	43.8	48.3	37.5	23.7	15.4
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°	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8	637.8
2.5°	637.4	641.1	645.3	647.5	649.6	652.0	654.5	654.5	654.9	655.1
5°	632.9	640.5	647.1	650.0	650.6	650.6	650.0	646.7	643.8	645.1
7.5°	623.6	634.5	640.3	639.2	631.5	622.6	615.1	606.0	601.3	600.5
10°	610.2	622.8	623.8	613.7	594.5	575.5	559.7	544.2	536.9	535.1
12.5°	595.4	606.9	600.5	579.6	548.9	521.1	501.0	485.4	478.5	476.7
15°	583.4	591.4	574.9	542.1	503.5	474.0	457.4	445.8	441.0	439.6
17.5°	577.1	578.8	548.7	504.3	463.3	438.7	428.4	422.9	421.0	420.0
20°	580.2	568.8	523.8	469.1	430.5	413.2	410.7	409.3	408.9	408.3
22.5°	595.4	565.8	500.8	435.9	401.6	394.0	396.1	395.9	395.5	395.1
25°	622.6	568.5	478.5	404.3	377.5	375.8	379.5	379.5	377.9	377.9
27.5°	658.5	573.9	453.6	374.2	355.6	355.8	358.5	357.7	356.0	354.8
30°	702.4	577.4	424.3	347.2	335.0	334.2	335.0	331.5	326.1	325.7
32.5°	747.2	573.1	390.5	323.3	313.3	311.5	310.9	306.1	299.7	297.9
35°	787.8	557.4	356.0	304.2	292.7	288.6	291.4	289.8	284.1	282.6
37.5°	817.4	528.5	324.9	287.3	277.8	276.8	278.7	279.3	272.5	271.1
40°	837.3	489.1	298.3	273.1	275.0	271.1	265.0	260.8	258.7	258.1
42.5°	853.3	448.1	276.0	266.5	275.6	264.4	251.2	244.3	248.0	249.6
45°	871.8	408.1	257.3	258.1	272.5	256.7	241.7	235.0	236.4	236.8
47.5°	897.1	359.4	237.2	244.7	262.4	251.4	235.8	226.3	219.5	216.6
50°	932.2	301.8	216.4	229.8	252.5	247.6	226.7	216.6	204.2	201.3
52.5°	956.6	248.0	199.1	217.2	243.6	239.9	219.3	206.2	193.2	190.8
55°	943.5	206.0	184.0	203.2	231.7	230.4	213.3	195.6	185.5	183.4
57.5°	877.5	179.4	172.5	190.0	217.4	222.2	205.2	186.7	179.4	178.0
60°	751.7	162.8	165.2	181.1	205.6	214.1	197.0	181.8	177.0	175.9
62.5°	583.2	151.6	159.7	174.5	196.4	208.4	192.6	181.2	179.4	178.2
65°	417.9	142.7	153.9	168.1	188.1	203.2	191.0	180.4	180.9	179.8
67.5°	283.9	134.7	146.7	160.7	180.0	198.5	188.7	177.6	182.6	181.4
70°	198.7	127.1	138.4	151.4	169.8	192.0	184.6	173.3	172.9	168.1
72.5°	155.1	116.9	127.1	138.4	156.8	182.8	176.6	163.8	157.0	152.0
73°	147.9	114.5	124.2	135.5	154.1	180.7	174.3	161.1	153.6	148.9
75°	122.3	103.9	112.8	123.0	141.9	170.0	163.4	149.1	139.6	136.8
77.5°	96.2	88.9	97.4	106.5	125.0	154.7	147.1	133.5	128.3	125.8
80°	71.2	73.7	81.2	89.3	108.3	138.2	131.4	117.9	141.5	135.5
82.5°	50.1	55.9	62.7	70.0	90.9	122.1	114.1	100.0	103.5	86.0
85°	29.7	36.5	43.1	49.3	65.6	101.3	94.1	79.8	65.4	62.3
87.5°	17.3	20.3	22.1	28.6	45.0	76.3	66.4	59.0	33.9	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)