

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: P200049

Luminaire Tested: **GPC-AF-01-LED-E1-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200049
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-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 6786.1 lumens
Efficiency: N/A
Efficacy: 101.3 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 - G2

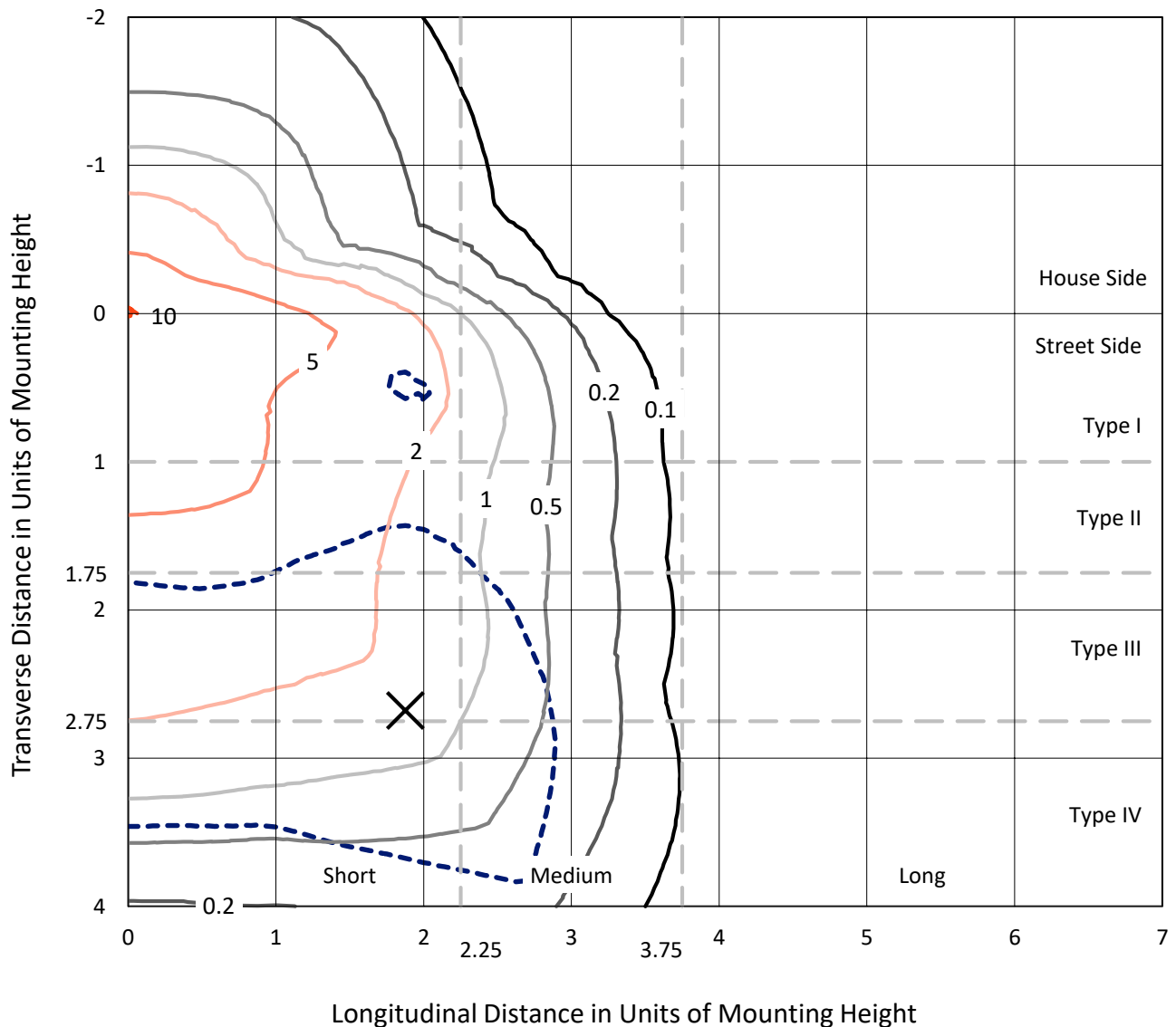
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

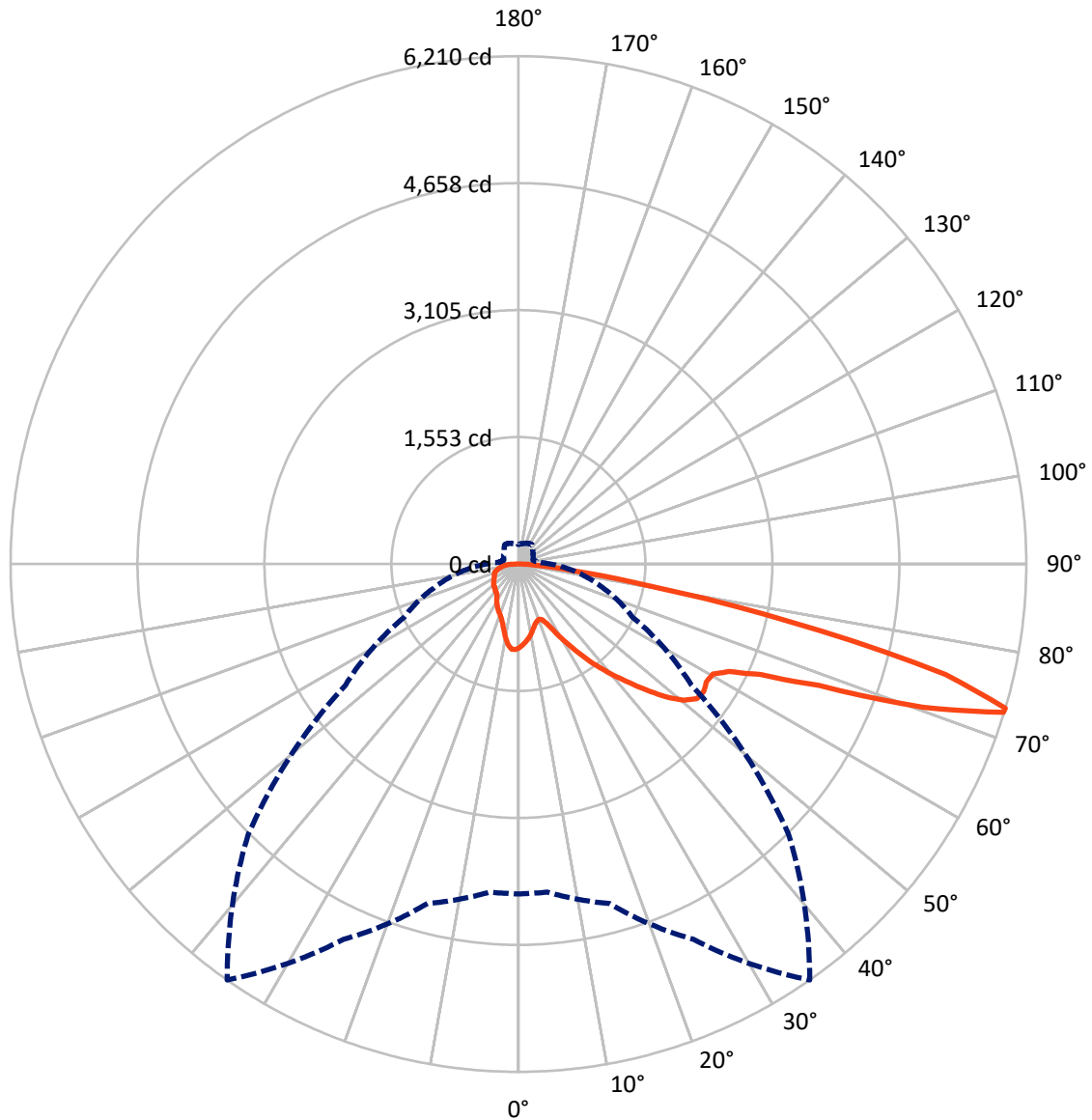
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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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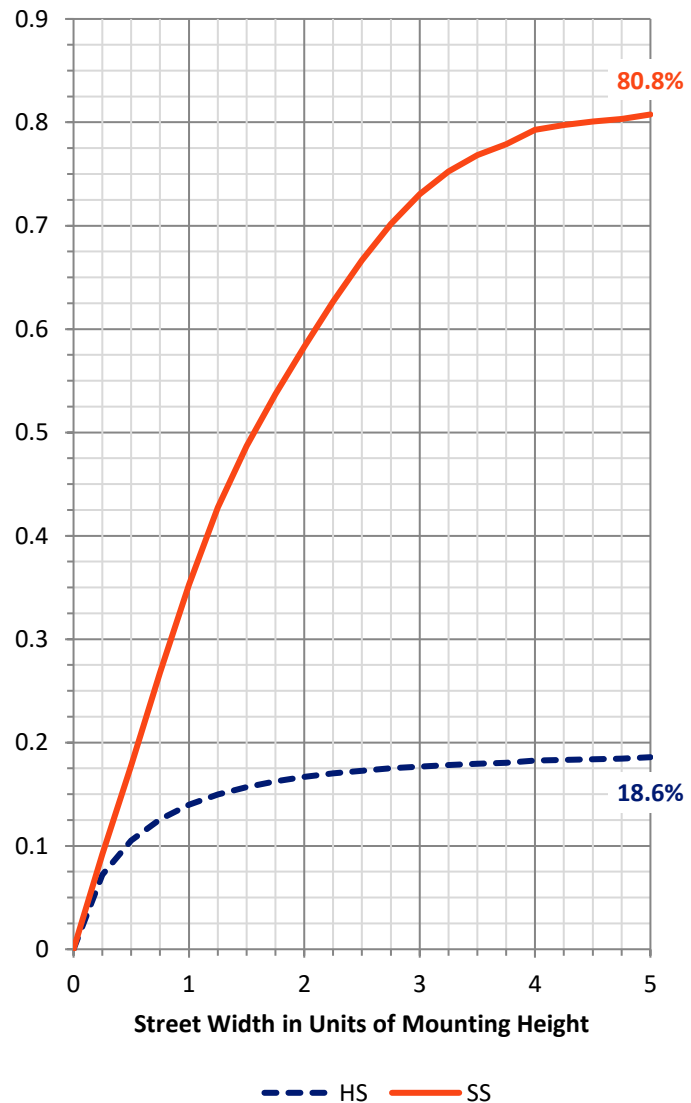
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1294.3	0.0	1294.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	5491.8	0.0	5491.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	6786.1	0.0	6786.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	1.4
10°-20°	231.4	3.4
20°-30°	374.1	5.5
30°-40°	627.4	9.2
40°-50°	967.0	14.3
50°-60°	1297.4	19.1
60°-70°	1728.4	25.5
70°-80°	1318.2	19.4
80°-90°	149.4	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°	6786.1	100.0
0°-180°	6786.1	100.0

Coefficient of Utilization



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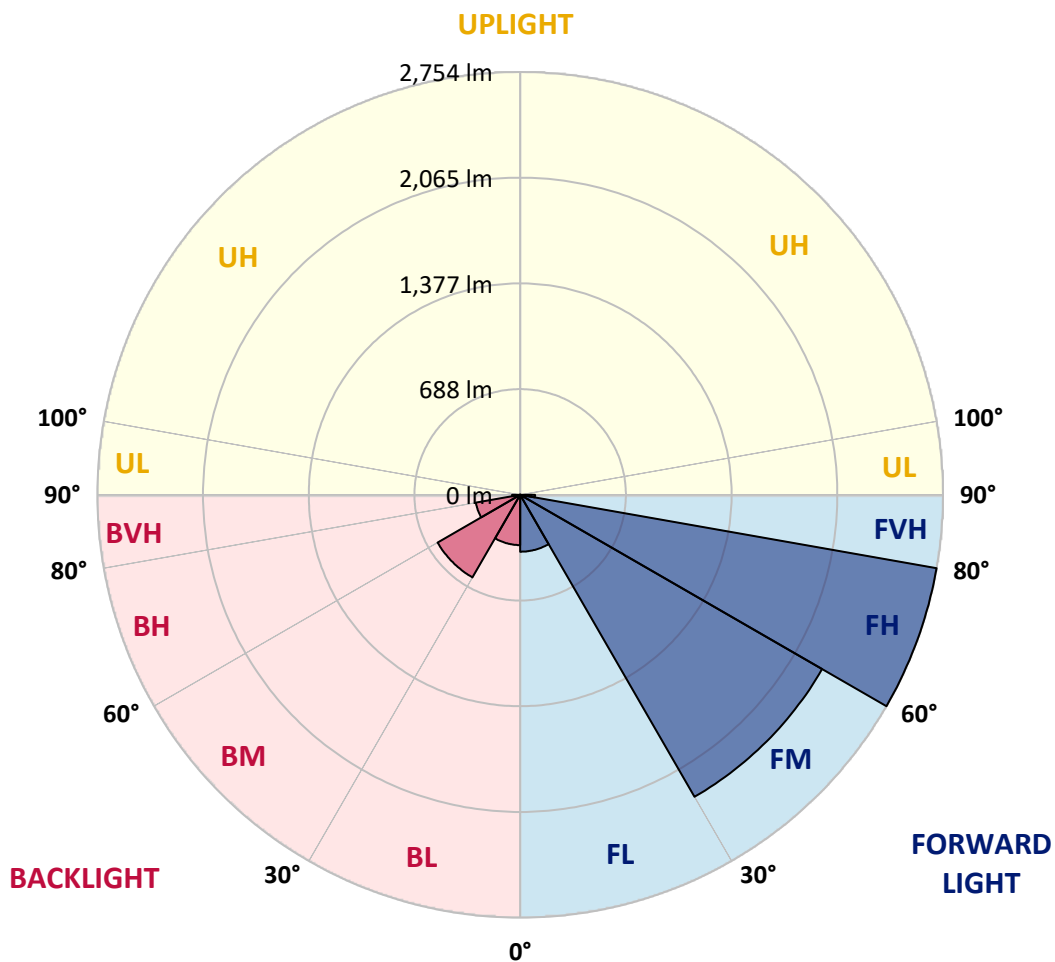
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.7	5.5			
FM	(30°-60°)	2270.7	33.5			
FH	(60°-80°)	2753.8	40.6			G2/5000
FVH	(80°-90°)	96.6	1.4			G1/100
BL	(0°-30°)	327.5	4.8	B1/500		
BM	(30°-60°)	621.1	9.2	B1/1000		
BH	(60°-80°)	292.8	4.3	B1/500		G1/500
BVH	(80°-90°)	52.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2
2.5°	983.8	985.7	983.6	986.4	991.3	996.6	1000.2	1005.3	1011.2	1019.4	1021.2
5°	937.6	940.5	940.5	945.7	955.2	963.6	971.5	979.9	992.3	1006.3	1011.8
7.5°	886.7	888.4	891.2	899.1	912.8	924.9	936.0	949.6	966.5	985.1	995.0
10°	825.5	827.7	832.3	843.4	861.9	878.6	894.5	913.4	934.9	958.1	970.4
12.5°	782.1	781.4	783.4	791.6	807.9	828.0	851.2	875.2	901.7	928.7	943.8
15°	767.4	763.8	756.4	754.4	763.1	783.4	810.1	839.7	871.4	904.0	922.5
17.5°	776.7	770.4	749.8	734.9	733.5	748.9	777.3	810.4	847.0	886.7	909.8
20°	833.8	819.2	768.7	733.9	721.7	729.3	754.1	789.3	832.3	885.1	914.7
22.5°	971.1	949.6	842.4	777.5	736.9	727.6	746.2	783.7	833.8	905.3	943.1
25°	1170.9	1140.2	968.8	886.4	802.3	753.8	758.0	796.4	857.0	952.2	997.9
27.5°	1328.6	1308.7	1134.0	1039.8	921.6	824.2	796.2	828.4	904.3	1029.1	1075.7
30°	1422.4	1410.4	1310.7	1213.9	1073.8	936.3	869.1	888.4	978.3	1135.6	1174.1
32.5°	1531.3	1524.1	1475.2	1386.3	1238.0	1083.6	984.8	978.0	1077.3	1263.8	1281.4
35°	1644.1	1641.7	1613.1	1549.2	1414.4	1277.8	1138.3	1092.0	1185.3	1396.7	1385.6
37.5°	1749.0	1745.1	1728.5	1691.4	1598.8	1486.4	1294.7	1209.0	1301.6	1523.8	1474.6
40°	1942.2	1911.6	1854.5	1826.6	1785.2	1662.0	1418.8	1318.2	1422.1	1645.0	1551.5
42.5°	2177.9	2128.0	2021.8	1983.3	1977.4	1800.5	1503.6	1424.0	1543.8	1765.3	1627.1
45°	2363.3	2316.3	2224.7	2176.2	2197.8	1925.9	1588.6	1537.2	1668.8	1891.4	1705.0
47.5°	2561.0	2487.4	2366.2	2380.9	2427.7	2044.6	1675.4	1658.7	1806.0	2032.5	1801.8
50°	2568.2	2511.9	2458.8	2546.4	2619.4	2153.7	1783.8	1786.2	1973.9	2210.1	1930.5
52.5°	2419.3	2407.3	2491.6	2629.6	2734.8	2240.1	1907.3	1917.8	2188.6	2414.1	2071.9
55°	2367.2	2353.5	2450.9	2600.5	2750.4	2311.5	2041.3	2060.2	2448.3	2629.3	2209.8
57.5°	2494.3	2463.9	2470.5	2586.8	2712.3	2389.6	2187.3	2225.4	2730.5	2817.2	2298.4
60°	2849.5	2784.6	2661.4	2658.5	2732.8	2507.0	2356.0	2402.7	3023.9	2907.2	2263.9
62.5°	3347.7	3282.9	3052.1	2901.9	2890.9	2700.6	2563.3	2575.8	3193.3	2785.2	2053.0
65°	3887.1	3829.1	3571.2	3359.1	3256.8	3021.2	2804.1	2653.0	3137.9	2449.9	1684.1
67.5°	4541.8	4479.5	4258.0	4062.0	3963.6	3538.7	2973.3	2578.9	2786.2	1898.0	1210.6
70°	4999.6	4936.2	4848.7	5007.5	5248.3	4285.2	2995.2	2278.2	2081.1	1261.5	728.6
72.5°	4402.3	4372.7	4532.0	5200.3	6203.4	4738.2	2707.3	1658.7	1208.6	669.6	421.6
73°	4033.5	4026.9	4298.7	5065.2	6210.3	4668.5	2581.2	1541.7	1036.7	592.4	385.4
75°	1821.4	1873.8	2469.5	3868.8	5395.6	3847.0	1816.8	884.5	585.6	409.2	290.9
77.5°	437.7	455.9	772.7	1837.3	3407.4	2292.6	823.2	437.4	374.4	289.1	212.5
80°	186.4	192.7	297.5	678.8	1604.3	923.2	379.3	293.0	259.1	201.7	148.9
82.5°	103.6	110.2	168.8	308.0	647.5	314.7	231.4	204.0	170.5	121.6	96.8
85°	58.7	62.3	98.8	172.1	274.3	126.4	138.5	135.6	96.1	62.6	47.5
87.5°	27.8	29.9	47.5	79.9	107.5	49.5	70.4	77.6	60.3	38.1	24.8
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°	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2
2.5°	1023.5	1029.4	1036.4	1039.8	1043.1	1047.0	1051.0	1051.0	1051.6	1051.9
5°	1016.4	1028.4	1039.3	1043.8	1044.7	1044.7	1043.8	1038.6	1034.0	1036.0
7.5°	1001.5	1019.1	1028.1	1026.5	1014.2	999.8	987.7	973.1	965.6	964.3
10°	979.9	1000.2	1001.8	985.4	954.8	924.3	898.7	874.0	862.3	859.4
12.5°	956.1	974.7	964.3	930.7	881.5	836.8	804.5	779.4	768.4	765.5
15°	936.9	949.6	923.2	870.5	808.5	761.2	734.6	715.9	708.1	705.9
17.5°	926.8	929.4	881.1	809.8	743.9	704.5	687.9	679.1	676.2	674.5
20°	931.7	913.4	841.1	753.5	691.2	663.5	659.6	657.3	656.6	655.7
22.5°	956.1	908.6	804.2	700.1	644.9	632.8	636.1	635.8	635.2	634.5
25°	999.8	912.8	768.4	649.1	606.2	603.5	609.3	609.3	606.8	606.8
27.5°	1057.5	921.6	728.3	600.9	571.0	571.3	575.8	574.4	571.5	569.7
30°	1127.9	927.2	681.4	557.6	538.0	536.7	538.0	532.5	523.7	523.1
32.5°	1199.8	920.3	627.0	519.1	503.1	500.2	499.2	491.4	481.3	478.3
35°	1265.0	895.2	571.5	488.5	470.0	463.4	467.9	465.3	456.2	454.0
37.5°	1312.6	848.6	521.7	461.4	446.1	444.4	447.4	448.4	437.7	435.4
40°	1344.6	785.3	479.0	438.6	441.5	435.4	425.6	418.8	415.5	414.5
42.5°	1370.3	719.6	443.1	427.9	442.5	424.6	403.3	392.3	398.2	400.9
45°	1399.9	655.3	413.2	414.5	437.7	412.2	388.1	377.4	379.6	380.3
47.5°	1440.7	577.1	381.0	393.0	421.4	403.7	378.7	363.4	352.6	347.7
50°	1497.1	484.6	347.3	368.9	405.4	397.6	364.1	347.7	327.9	323.3
52.5°	1536.1	398.2	319.7	348.6	391.0	385.1	352.3	331.0	310.2	306.4
55°	1515.0	330.7	295.5	326.2	372.1	369.9	342.5	314.1	297.8	294.6
57.5°	1409.1	288.1	277.0	305.1	349.0	356.8	329.4	299.8	288.1	285.8
60°	1207.1	261.3	265.3	290.6	330.1	343.8	316.5	291.9	284.2	282.6
62.5°	936.6	243.4	256.4	280.2	315.4	334.7	309.2	290.9	288.1	286.2
65°	671.0	229.1	247.0	269.9	302.1	326.2	306.7	289.7	290.4	288.8
67.5°	455.9	216.4	235.6	258.1	289.1	318.7	303.0	285.1	293.3	291.2
70°	319.0	204.0	222.3	243.1	272.7	308.3	296.5	278.3	277.6	269.9
72.5°	249.0	187.7	204.0	222.3	252.0	293.6	283.5	263.0	252.3	244.0
73°	237.5	183.8	199.4	217.7	247.4	290.1	279.9	258.7	246.7	239.2
75°	196.5	166.8	181.2	197.4	227.8	273.0	262.3	239.5	224.2	219.6
77.5°	154.5	142.7	156.5	171.1	200.7	248.3	236.2	214.4	206.0	202.0
80°	114.4	118.3	130.3	143.3	174.0	221.9	211.2	189.3	227.2	217.7
82.5°	80.6	89.6	100.7	112.4	146.0	196.2	183.1	160.6	166.2	138.2
85°	47.5	58.7	69.1	79.2	105.2	162.6	151.3	128.1	104.9	100.1
87.5°	27.8	32.6	35.5	46.0	72.3	122.5	106.5	94.8	54.4	36.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)