

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: P192059

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6496 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-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

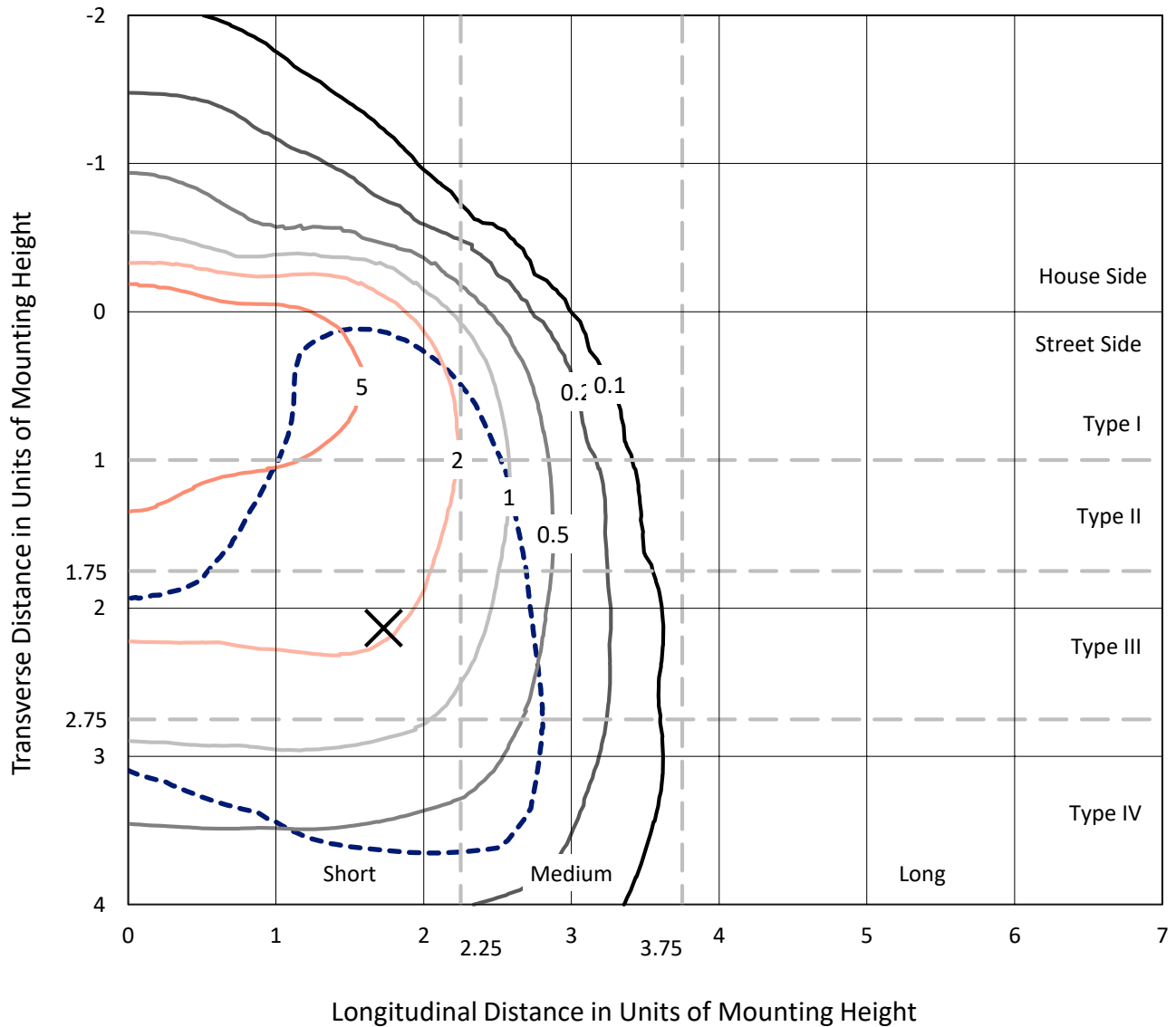


REPORT NUMBER: P192059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

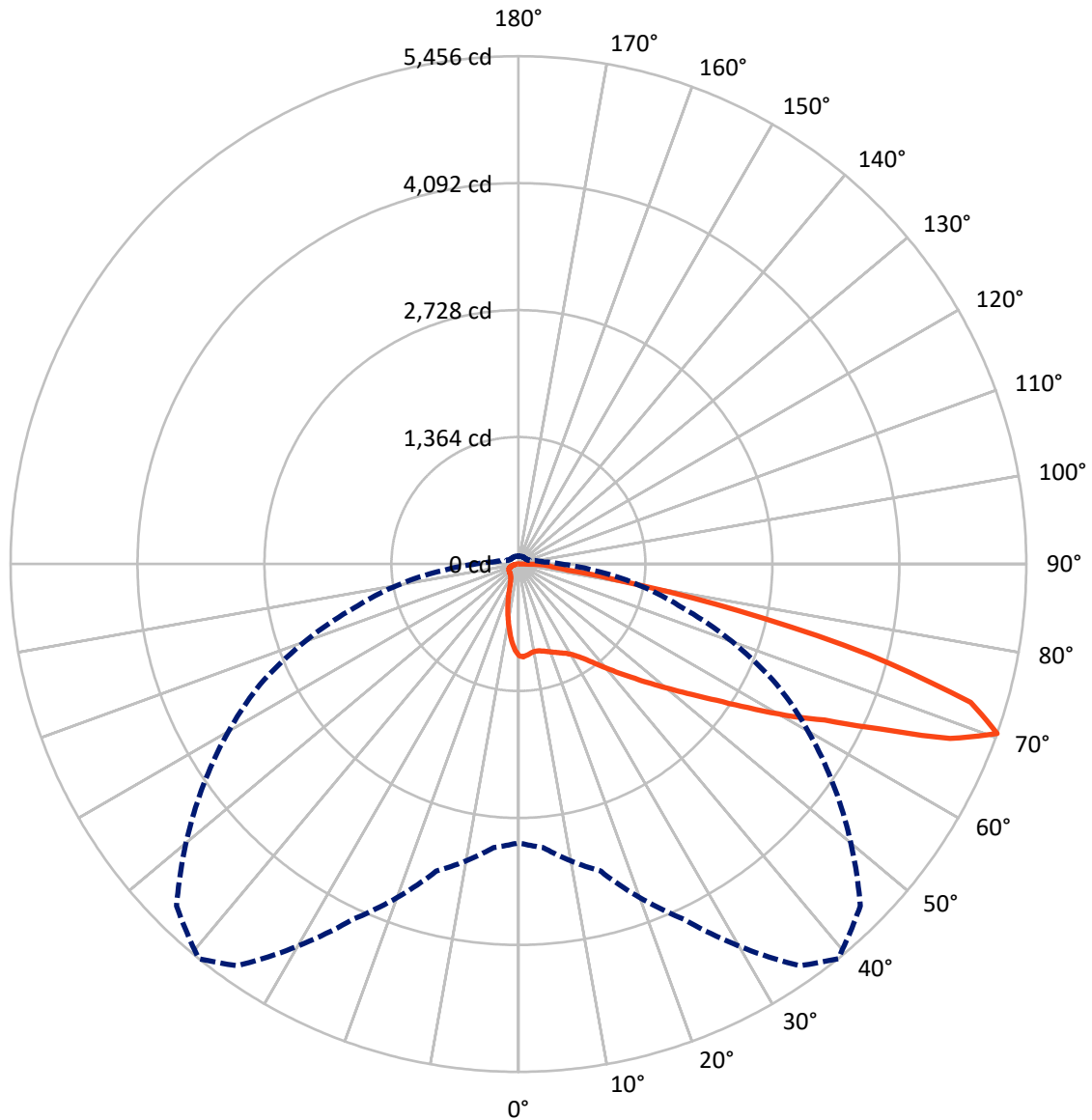


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P192059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050-1200

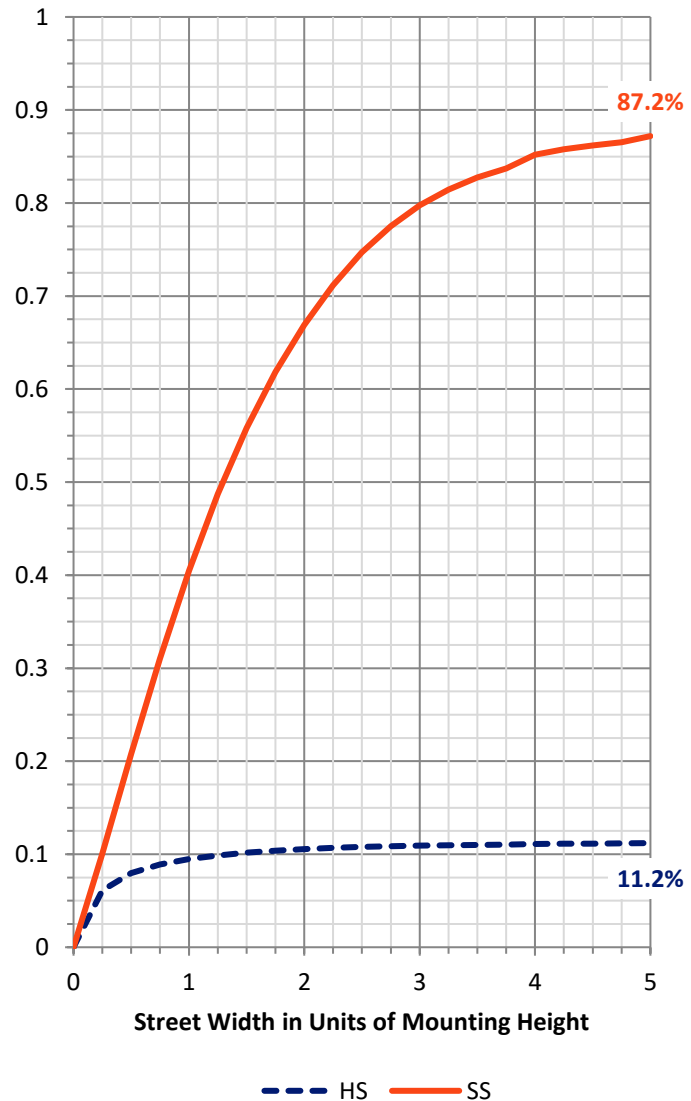
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	738.8	0.0	738.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	5757.2	0.0	5757.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	6496.0	0.0	6496.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.3
10°-20°	211.6	3.3
20°-30°	329.4	5.1
30°-40°	513.1	7.9
40°-50°	861.5	13.3
50°-60°	1368.5	21.1
60°-70°	1825.5	28.1
70°-80°	1102.3	17.0
80°-90°	199.5	3.1
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°	6496.0	100.0
0°-180°	6496.0	100.0



REPORT NUMBER: P192059

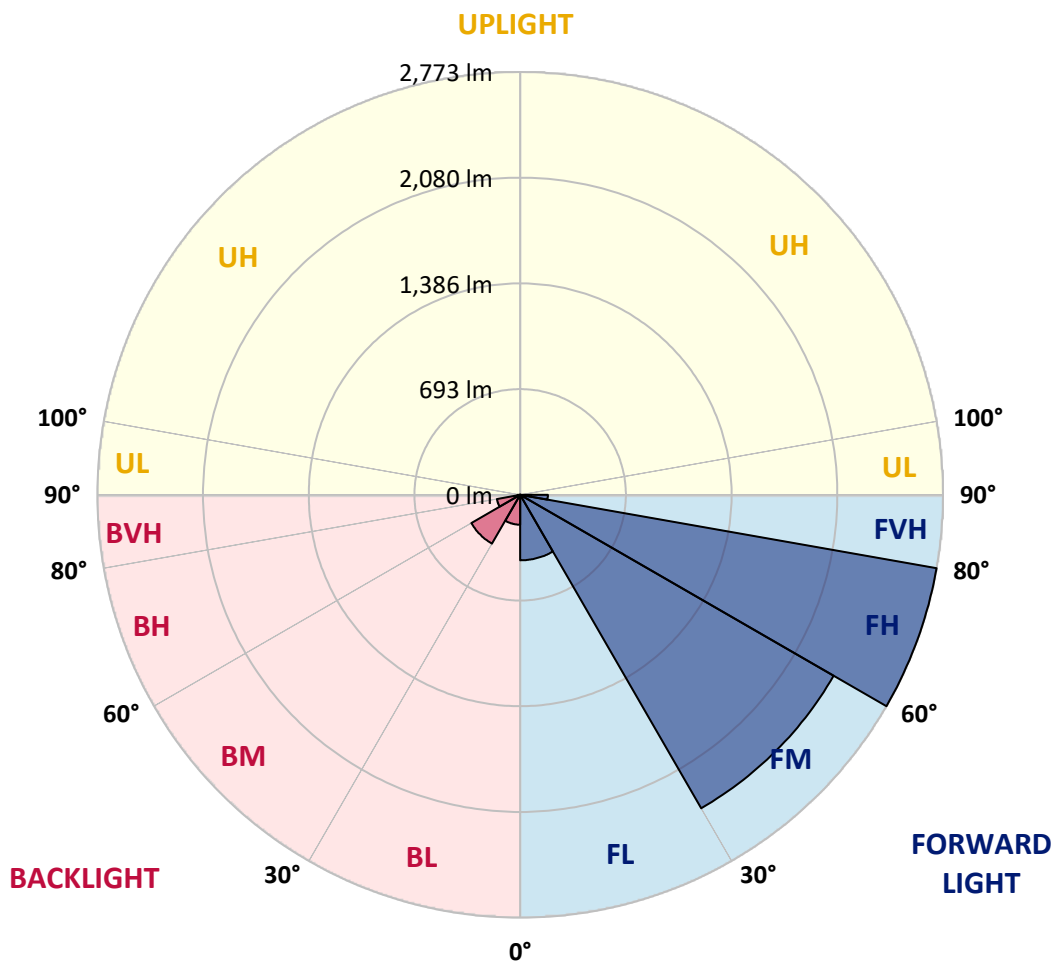
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.6	6.6			
FM (30°-60°)	2373.4	36.5			
FH (60°-80°)	2772.7	42.7			G2/5000
FVH (80°-90°)	181.5	2.8			G2/225
BL (0°-30°)	196.0	3.0	B1/500		
BM (30°-60°)	369.7	5.7	B1/1000		
BH (60°-80°)	155.1	2.4	B1/500		G1/500
BVH (80°-90°)	18.0	0.3			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





REPORT NUMBER: P192059

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2
2.5°	1005.3	1005.0	1002.4	1000.4	998.7	998.1	999.4	994.5	990.2	984.9	979.3
5°	997.8	997.4	993.1	989.2	985.2	983.9	983.6	974.6	969.3	961.4	950.9
7.5°	989.5	987.8	982.2	975.6	968.7	965.4	962.1	950.5	944.6	936.7	924.4
10°	980.9	978.9	973.6	967.0	960.4	955.5	949.9	938.6	932.4	926.4	912.2
12.5°	972.0	970.3	969.0	966.0	961.4	957.1	952.8	943.3	936.7	929.7	913.2
15°	970.7	970.0	973.0	975.0	972.3	969.7	965.1	956.8	949.9	942.9	921.5
17.5°	981.2	980.9	988.5	993.8	992.5	987.8	981.6	972.3	966.7	960.8	934.0
20°	1004.4	1006.0	1015.3	1022.2	1015.6	1009.0	998.7	985.9	982.9	980.2	946.9
22.5°	1048.0	1049.6	1056.2	1058.9	1041.7	1032.1	1017.9	1001.4	999.4	1001.4	962.4
25°	1116.0	1114.3	1113.3	1103.4	1072.1	1057.2	1039.0	1021.9	1022.9	1031.8	984.2
27.5°	1206.2	1197.2	1183.4	1153.6	1103.8	1087.3	1065.1	1049.3	1055.6	1072.7	1016.9
30°	1299.6	1289.7	1257.7	1209.1	1145.4	1127.2	1102.4	1084.6	1101.1	1128.2	1060.5
32.5°	1386.2	1384.8	1337.9	1275.5	1202.9	1187.0	1162.2	1142.1	1168.8	1210.1	1125.9
35°	1480.6	1483.6	1427.4	1352.5	1280.5	1264.0	1246.1	1230.9	1266.6	1323.4	1220.7
37.5°	1581.7	1587.6	1521.2	1436.7	1369.0	1362.0	1351.5	1344.9	1400.0	1478.6	1353.1
40°	1716.8	1710.8	1618.7	1531.8	1477.6	1477.3	1474.0	1481.9	1573.7	1681.4	1523.2
42.5°	1861.4	1843.9	1722.0	1633.9	1596.9	1608.1	1614.7	1647.1	1782.8	1927.8	1730.6
45°	2017.3	1978.0	1829.4	1741.9	1729.3	1753.1	1775.5	1845.9	2028.9	2208.2	1957.9
47.5°	2141.8	2103.8	1940.4	1855.1	1882.6	1918.6	1961.8	2073.1	2304.3	2497.9	2182.1
50°	2239.9	2215.1	2052.3	1987.2	2051.3	2106.8	2177.5	2330.4	2591.0	2779.9	2389.9
52.5°	2335.0	2316.5	2165.3	2122.7	2249.5	2326.1	2422.2	2606.5	2884.9	3057.3	2564.6
55°	2420.9	2407.7	2286.8	2291.4	2482.7	2582.4	2703.3	2920.9	3205.3	3304.7	2712.5
57.5°	2517.7	2500.8	2425.5	2503.1	2782.2	2911.7	3068.9	3274.3	3505.8	3524.7	2825.2
60°	2615.1	2600.6	2579.4	2747.5	3162.7	3298.8	3447.7	3616.8	3810.7	3695.4	2818.5
62.5°	2699.6	2701.3	2738.6	3004.2	3535.2	3692.8	3874.4	4041.5	4086.5	3725.1	2610.1
65°	2843.0	2869.1	2980.4	3367.5	4059.7	4270.4	4493.4	4466.6	4162.8	3447.4	2163.3
67.5°	3013.4	3059.3	3284.9	3851.6	4722.6	5002.3	5088.5	4562.7	3857.3	2802.4	1542.0
70°	2996.2	3059.3	3416.3	4212.6	5268.8	5456.4	5194.9	4129.4	3062.9	1830.7	819.1
72.5°	2660.7	2750.8	3148.5	4047.2	5096.8	5080.3	4509.9	3078.5	1819.8	735.2	320.0
75°	2027.9	2119.0	2461.2	3197.4	4028.3	3889.6	3200.0	1700.6	690.6	292.0	201.8
77.5°	1166.5	1237.2	1501.4	1960.8	2555.6	2413.3	1781.2	756.3	336.2	203.4	157.5
80°	651.3	690.6	851.1	994.8	1252.4	1148.0	796.9	470.0	251.0	147.6	121.5
82.5°	514.9	549.9	688.3	627.5	572.0	527.8	457.8	418.5	200.5	93.1	72.7
85°	449.8	483.2	582.6	494.1	390.7	358.3	371.9	411.8	155.9	56.1	62.1
87.5°	416.8	461.4	519.2	380.8	304.2	269.5	343.2	451.5	50.2	35.0	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192059

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2	986.2
2.5°	974.3	969.0	960.4	952.8	940.9	934.7	927.7	922.8	918.8	915.5	920.8
5°	944.2	934.3	916.2	896.7	873.6	855.4	840.2	826.0	816.1	809.5	814.1
7.5°	915.8	899.7	871.3	835.9	796.3	762.6	734.9	710.4	693.6	682.7	687.0
10°	899.7	879.5	835.6	780.1	721.6	669.1	625.5	587.9	561.8	546.9	549.2
12.5°	895.7	869.6	808.8	732.5	652.6	579.6	518.2	466.0	429.4	410.2	410.9
15°	898.7	865.3	783.7	687.0	585.9	493.8	417.1	353.7	311.1	289.3	289.0
17.5°	903.6	862.0	757.3	637.8	518.2	411.2	325.6	263.6	225.9	208.4	207.1
20°	908.9	856.7	727.6	584.6	447.8	334.6	255.0	206.4	182.6	173.1	172.4
22.5°	916.5	852.1	696.9	528.4	378.8	272.5	209.7	177.0	164.5	159.5	158.9
25°	928.7	849.8	664.2	470.0	316.7	227.9	182.6	162.5	155.2	151.9	151.6
27.5°	949.2	853.1	633.5	413.2	266.2	197.8	167.4	155.2	149.9	147.0	146.6
30°	975.6	863.3	601.1	359.3	226.9	177.4	158.2	150.3	146.0	143.0	143.0
32.5°	1019.6	880.5	567.1	312.8	198.8	163.2	151.3	146.0	142.3	140.0	139.7
35°	1084.3	912.9	535.4	274.1	178.7	152.9	145.3	141.4	138.7	137.4	137.4
37.5°	1178.4	964.1	507.3	246.4	166.5	146.0	139.7	136.7	135.1	135.1	135.1
40°	1304.9	1034.7	484.5	227.9	159.5	141.0	135.4	133.1	132.1	132.4	132.4
42.5°	1461.1	1126.6	469.3	215.0	156.2	138.1	132.4	130.5	129.5	129.1	129.5
45°	1639.1	1230.9	467.7	205.4	152.9	136.1	130.5	128.5	126.5	125.2	125.2
47.5°	1812.2	1336.9	481.2	202.1	149.3	133.8	128.8	126.8	123.9	120.9	120.9
50°	1965.1	1427.1	499.4	203.4	148.0	130.5	126.2	125.2	120.5	117.2	116.9
52.5°	2086.7	1496.5	514.2	207.4	149.3	128.1	122.9	123.2	118.2	114.6	114.3
55°	2184.1	1542.0	510.3	211.4	152.3	126.8	119.9	120.5	116.6	113.0	113.0
57.5°	2226.7	1525.2	466.3	208.1	154.6	127.2	117.6	120.2	116.9	113.6	113.6
60°	2135.2	1375.6	384.1	193.5	151.6	126.2	116.6	121.5	121.2	117.9	117.6
62.5°	1858.4	1107.7	297.9	172.1	141.4	121.2	113.9	121.2	124.8	123.9	123.5
65°	1432.4	789.0	227.6	149.0	127.5	113.0	107.0	113.6	118.6	119.9	119.6
67.5°	929.7	483.5	175.4	127.2	112.0	103.4	98.1	101.1	102.1	102.1	101.4
70°	457.1	260.3	139.7	107.0	96.1	93.1	90.2	88.5	86.9	85.5	85.5
72.5°	225.6	170.1	114.9	90.5	82.9	81.6	80.9	78.9	77.6	76.0	75.3
75°	166.8	138.4	97.8	76.3	71.3	70.0	71.3	69.7	69.4	68.0	67.4
77.5°	137.1	117.9	84.2	65.4	61.1	58.8	60.8	61.1	61.4	59.4	58.8
80°	111.3	99.7	70.3	54.2	50.2	48.6	49.9	52.5	53.2	50.2	48.9
82.5°	80.3	81.6	56.8	42.3	39.0	37.7	40.3	43.6	44.3	40.0	39.0
85°	67.4	68.0	43.6	30.1	26.8	24.8	29.1	32.4	34.7	30.4	29.4
87.5°	28.1	40.0	25.1	16.8	14.9	12.9	15.5	17.2	20.8	19.2	18.8
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)