

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: P191949

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4106 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): 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

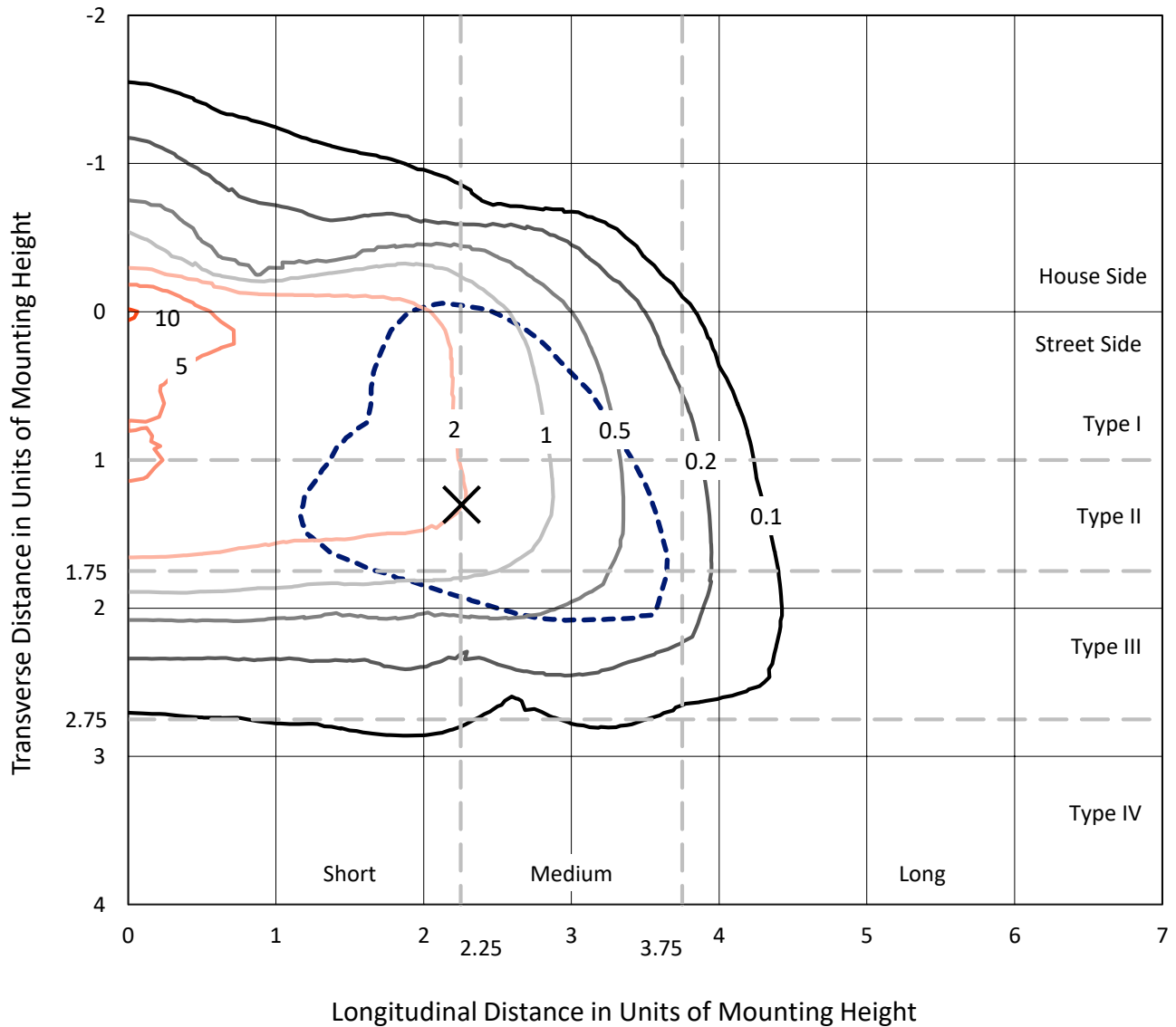


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Iso-Footcandle Lines of Horizontal Illumination

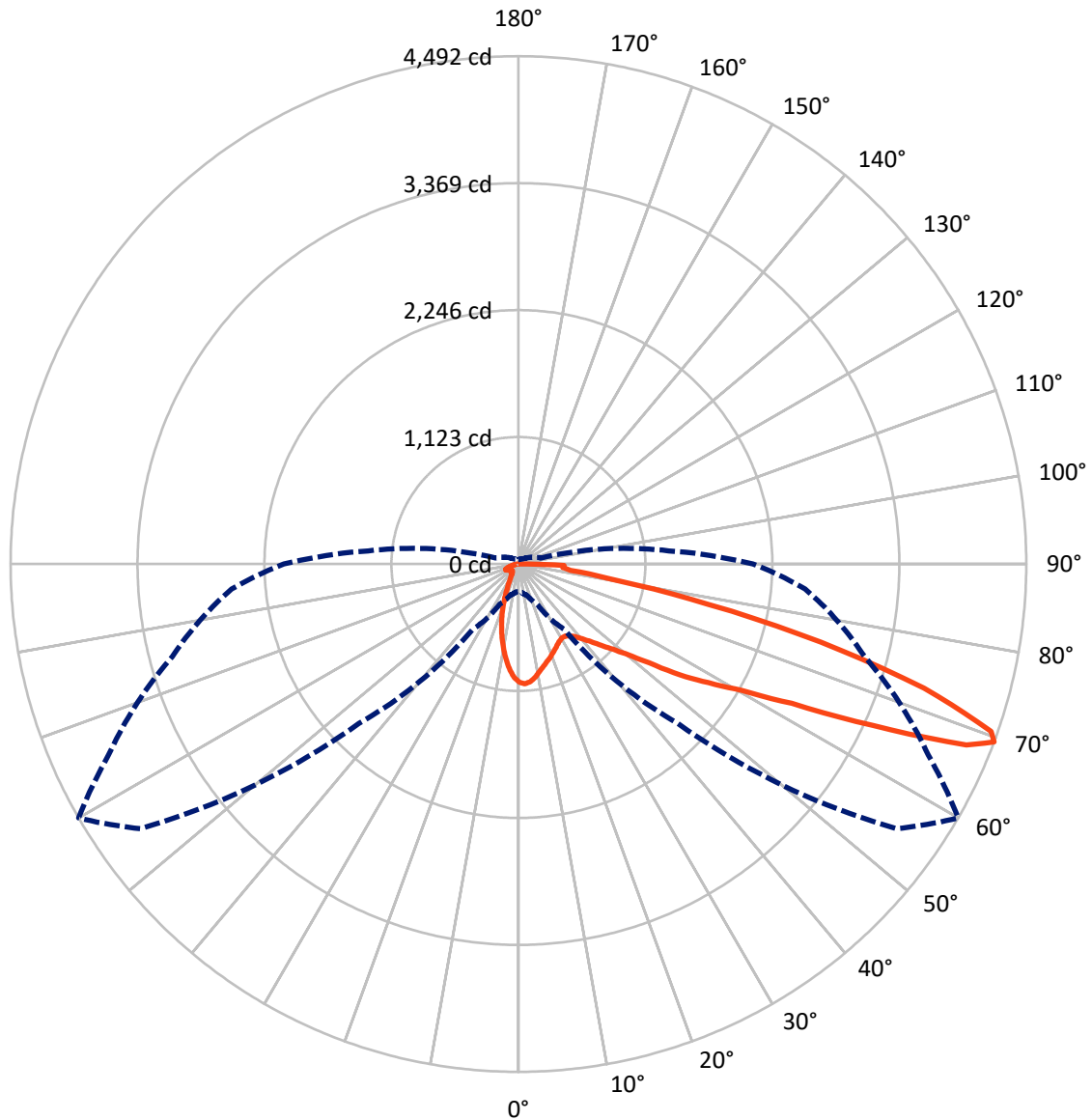
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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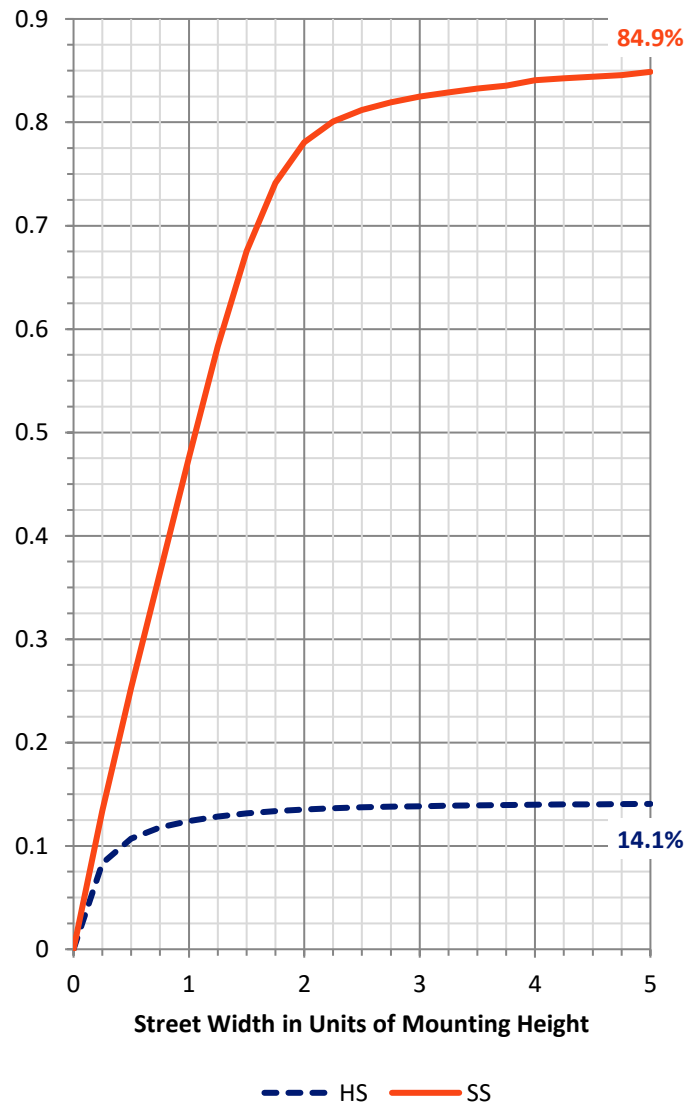
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.2	0.0	584.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3521.8	0.0	3521.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	4106.0	0.0	4106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	2.2
10°-20°	188.5	4.6
20°-30°	240.2	5.8
30°-40°	330.2	8.0
40°-50°	535.7	13.0
50°-60°	859.2	20.9
60°-70°	1143.5	27.8
70°-80°	617.4	15.0
80°-90°	103.0	2.5
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°	4106.0	100.0
0°-180°	4106.0	100.0

Coefficient of Utilization



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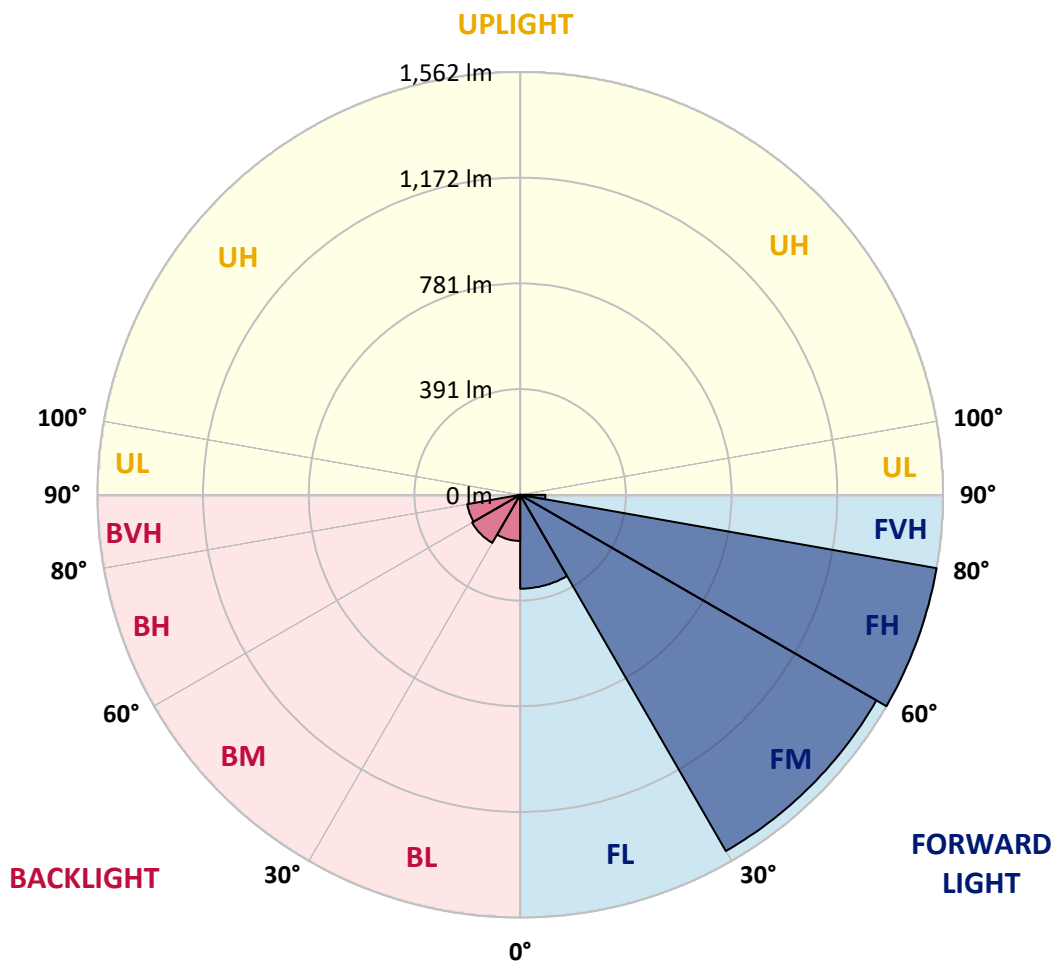
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.7	8.4			
FM	(30°-60°)	1519.8	37.0			
FH	(60°-80°)	1562.3	38.0			G1/1800
FVH	(80°-90°)	93.1	2.3			G1/100
BL	(0°-30°)	170.4	4.2	B1/500		
BM	(30°-60°)	205.2	5.0	B0/220		
BH	(60°-80°)	198.6	4.8	B1/500		G1/500
BVH	(80°-90°)	9.9	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	1067.7	1070.1	1069.1	1068.5	1070.3	1067.5	1061.7	1060.0	1057.2	1050.6	1039.5
5°	1027.6	1034.8	1034.4	1039.7	1048.7	1051.0	1048.5	1048.8	1043.7	1035.6	1017.1
7.5°	958.4	961.4	963.0	974.7	990.9	1004.0	1015.1	1018.7	1016.3	1009.4	985.6
10°	887.0	889.4	893.1	906.8	927.5	945.5	966.5	978.6	983.8	982.6	956.0
12.5°	825.7	828.1	833.1	848.5	873.1	895.3	925.9	940.9	953.2	960.6	932.0
15°	770.8	775.9	780.7	798.5	826.1	855.3	889.8	908.8	927.9	944.3	910.8
17.5°	727.9	733.1	735.9	752.1	781.5	817.2	857.6	880.1	903.9	930.8	889.8
20°	703.1	705.5	704.3	713.4	739.8	777.7	825.7	851.7	880.5	918.1	868.8
22.5°	696.2	696.4	692.0	691.0	708.1	740.0	791.6	823.1	858.4	909.8	850.7
25°	713.1	712.5	700.6	690.8	692.6	711.3	758.7	795.4	840.0	908.0	836.8
27.5°	750.5	752.3	734.7	716.4	698.4	697.8	733.7	772.4	824.9	916.2	830.9
30°	803.1	806.1	787.2	764.0	730.1	702.1	724.0	758.7	815.6	933.0	829.9
32.5°	860.6	863.8	849.5	825.1	780.7	729.1	730.7	759.9	815.2	956.6	836.6
35°	921.9	925.5	918.1	897.5	848.1	778.9	756.5	779.1	828.1	992.7	854.7
37.5°	990.3	995.9	997.9	978.2	925.5	844.6	798.7	815.6	857.2	1042.9	887.8
40°	1088.9	1096.7	1096.1	1067.9	1014.1	933.2	864.0	868.4	902.7	1109.9	940.8
42.5°	1277.7	1279.3	1229.9	1168.7	1111.7	1026.4	940.9	937.4	965.3	1194.8	1018.7
45°	1517.9	1511.4	1401.5	1283.1	1213.7	1133.5	1041.1	1023.7	1044.9	1298.4	1116.3
47.5°	1717.3	1702.2	1563.4	1399.9	1321.6	1250.0	1158.7	1128.2	1139.9	1415.8	1242.4
50°	1786.5	1775.2	1660.1	1497.1	1423.7	1392.0	1303.5	1260.3	1263.5	1555.8	1390.2
52.5°	1771.6	1770.0	1693.3	1561.2	1519.3	1541.1	1508.6	1450.1	1419.2	1711.3	1549.7
55°	1736.5	1739.9	1712.1	1635.8	1628.6	1685.1	1776.6	1733.3	1637.1	1868.2	1714.5
57.5°	1614.5	1623.3	1684.3	1729.6	1804.5	1888.6	1992.4	1980.1	1871.8	2037.8	1910.5
60°	1300.7	1321.0	1484.8	1711.3	1985.6	2248.6	2295.1	2266.5	2113.8	2248.2	2169.3
62.5°	911.4	932.4	1127.2	1481.6	1955.9	2655.2	2836.1	2713.0	2461.3	2558.3	2504.3
65°	487.9	498.0	646.8	1028.0	1651.2	2739.1	3626.9	3439.5	3011.5	2940.5	2790.9
67.5°	269.2	274.7	331.6	519.1	1057.6	2412.1	4130.7	4272.4	3699.1	3194.9	2738.8
69°	243.4	248.5	285.8	393.1	707.7	1994.4	4081.5	4491.9	4000.6	3169.8	2546.0
70°	238.0	242.8	276.3	362.4	572.8	1643.9	3916.7	4435.8	4072.4	3079.5	2377.8
72.5°	214.2	219.4	251.9	325.5	489.5	819.6	3102.5	3750.5	3697.4	2670.1	1803.6
75°	199.7	204.5	259.6	318.7	468.7	518.7	2045.3	2764.1	2717.9	1867.8	972.5
77.5°	85.5	85.1	120.4	269.7	475.6	502.2	1099.0	1726.8	1575.5	798.3	279.3
80°	57.1	56.1	57.1	79.3	436.2	505.0	575.8	876.5	662.1	203.5	137.7
82.5°	49.2	48.4	50.2	48.4	153.3	576.4	489.5	466.1	314.8	115.6	68.2
85°	33.1	31.7	43.2	43.4	72.4	512.1	551.4	393.7	254.7	68.6	33.7
87.5°	15.9	15.5	25.2	30.7	42.4	208.1	618.6	403.4	256.9	35.1	16.1
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°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	1036.2	1028.0	1020.1	1010.6	1000.7	989.5	984.0	978.4	977.0	975.5	969.9
5°	1007.6	996.1	976.3	954.4	931.4	909.0	892.0	881.2	873.1	869.0	861.6
7.5°	970.7	953.8	919.1	881.4	842.8	807.5	776.9	757.7	739.4	730.9	721.2
10°	935.6	910.4	856.5	800.9	745.4	692.0	641.8	606.3	574.8	557.2	544.7
12.5°	905.4	870.9	796.2	721.0	644.8	568.9	493.7	434.6	385.2	359.2	345.9
15°	876.1	834.4	738.8	643.4	545.6	442.3	343.5	276.5	235.6	219.4	213.8
17.5°	849.5	796.2	681.3	565.3	443.3	318.3	230.9	194.0	178.3	173.0	171.2
20°	820.8	757.5	621.6	483.6	336.6	222.5	180.3	164.0	157.7	156.1	155.3
22.5°	793.0	719.4	564.5	396.1	241.8	171.8	154.9	148.2	147.2	148.6	148.6
25°	769.4	685.3	502.8	304.7	177.5	144.6	138.6	137.1	140.8	146.0	147.0
27.5°	751.7	657.3	437.2	224.9	141.4	125.8	125.6	128.1	137.5	147.4	149.4
30°	739.6	630.7	366.9	162.2	118.6	110.7	113.9	119.4	133.1	147.2	150.9
32.5°	733.5	611.1	293.7	125.6	101.6	97.2	102.5	109.3	122.8	135.9	140.8
35°	738.2	596.6	224.7	104.7	89.7	86.3	91.8	98.4	106.3	111.9	115.6
37.5°	756.1	590.9	169.6	93.8	81.5	78.3	82.7	86.5	89.7	91.2	93.0
40°	794.6	597.0	135.9	88.3	77.0	73.0	74.8	76.2	78.1	79.7	80.5
42.5°	851.3	615.5	121.8	86.1	74.6	68.8	68.4	69.0	71.6	74.6	75.2
45°	930.6	648.0	120.8	87.5	73.4	65.5	63.7	64.5	68.4	73.0	73.8
47.5°	1032.0	697.6	128.7	91.6	74.4	63.7	60.7	61.7	66.6	72.8	73.8
50°	1154.8	766.8	142.0	97.8	78.7	64.1	59.7	60.3	65.5	72.2	73.2
52.5°	1299.8	865.0	156.5	103.7	83.3	66.6	60.5	59.1	63.9	69.8	71.0
55°	1461.0	990.9	171.4	109.1	85.7	69.8	62.1	57.5	60.9	65.9	66.8
57.5°	1659.0	1167.1	197.2	114.2	87.3	72.0	63.7	55.9	57.1	60.7	61.5
60°	1926.9	1416.2	242.6	122.8	90.8	72.8	63.5	54.5	53.4	55.3	55.7
62.5°	2248.0	1686.7	280.5	133.5	96.8	73.4	62.3	53.6	50.2	50.2	50.6
65°	2438.7	1759.1	259.4	142.4	101.8	72.8	60.9	52.6	47.8	45.6	45.8
67.5°	2277.0	1547.1	222.3	144.2	101.6	70.0	58.7	50.8	45.4	42.0	41.9
69°	2074.5	1334.9	205.7	139.4	96.8	66.4	55.9	48.8	43.6	40.1	39.9
70°	1911.3	1205.3	194.8	134.3	91.6	63.9	53.8	47.0	42.2	38.9	38.5
72.5°	1389.6	789.8	166.4	115.4	75.6	53.6	46.4	41.3	37.7	35.7	35.3
75°	694.4	376.7	135.1	93.6	57.9	42.8	38.1	34.5	32.7	32.3	32.1
77.5°	228.1	172.6	96.6	69.8	43.0	33.5	30.7	28.2	27.8	29.0	28.6
80°	125.4	100.4	61.3	46.2	29.4	24.6	24.2	22.8	23.4	25.4	25.0
82.5°	63.9	52.2	37.9	27.8	19.8	17.7	19.2	18.4	19.2	21.0	20.8
85°	31.5	28.6	24.0	16.9	13.1	11.3	13.7	14.3	14.7	16.1	16.1
87.5°	18.2	16.9	12.7	7.9	6.5	6.0	7.9	7.7	9.1	9.9	9.7
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)