

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: P192019

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5549 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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

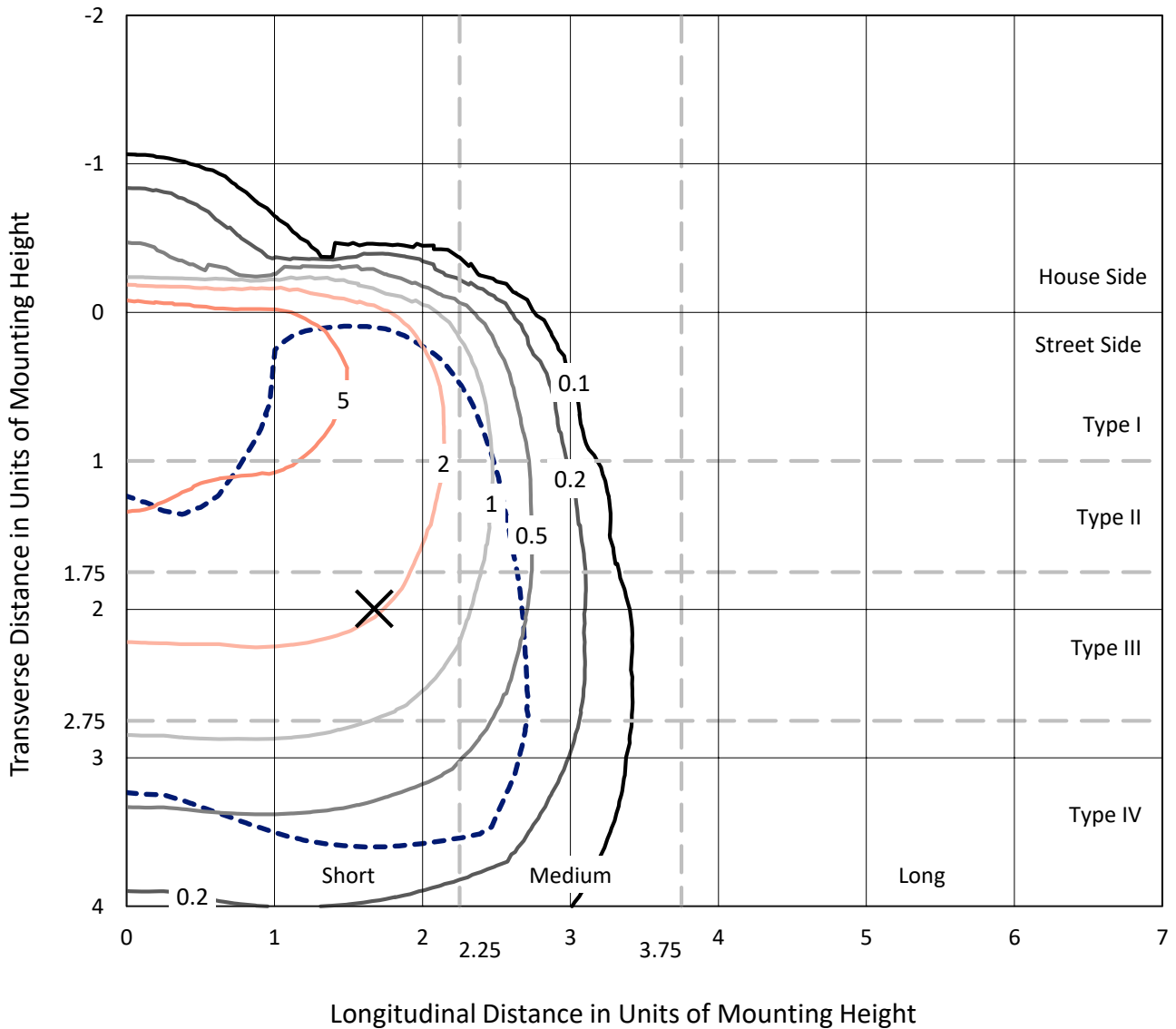


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Iso-Footcandle Lines of Horizontal Illumination

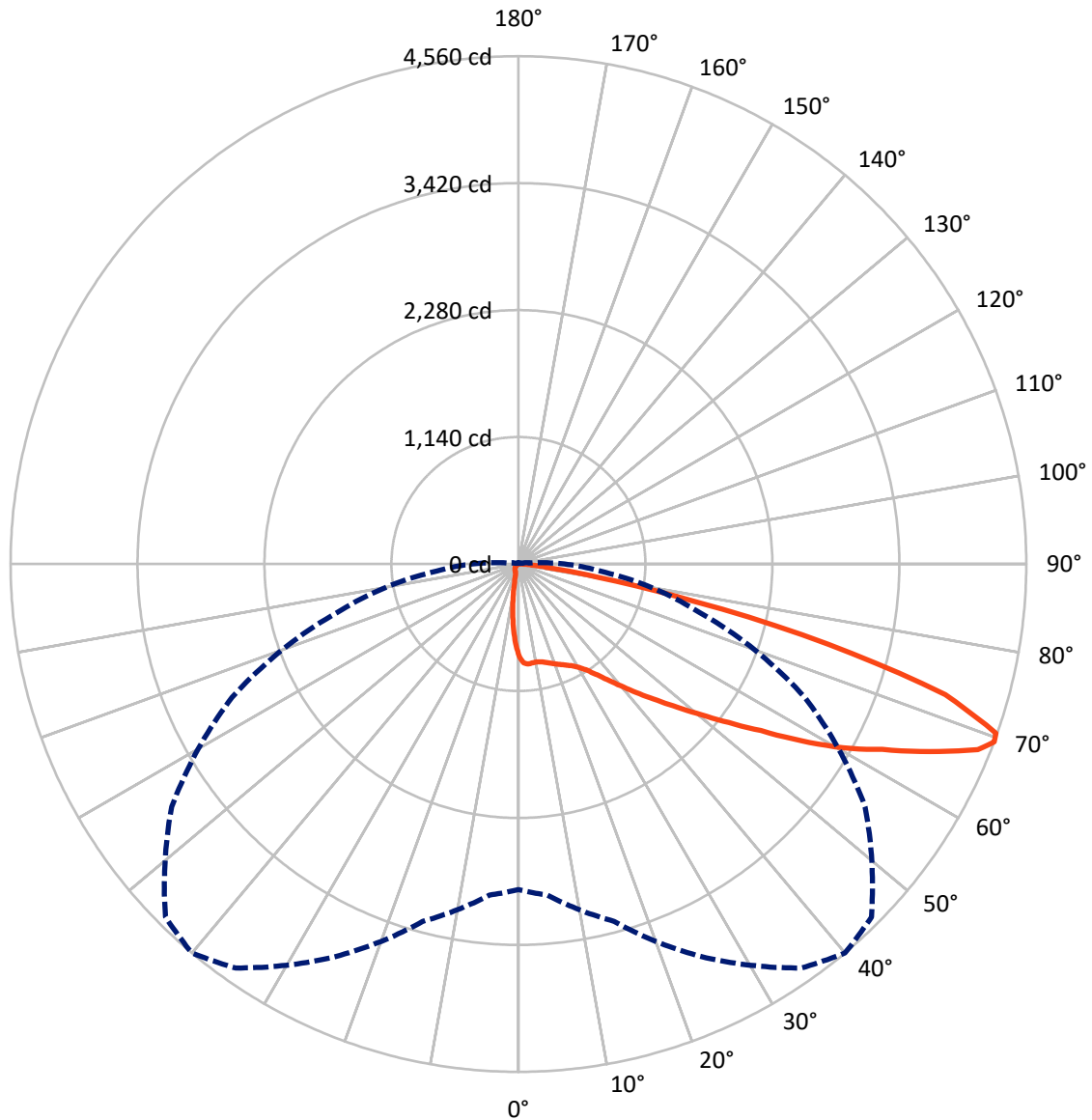
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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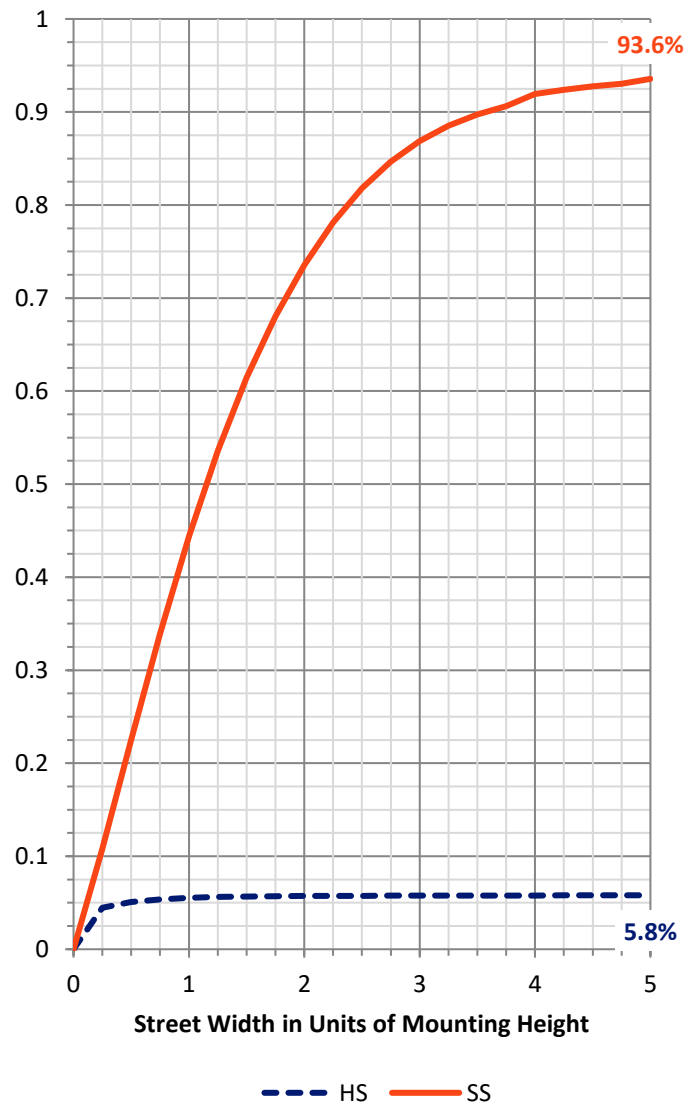
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	324.6	0.0	324.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	5224.4	0.0	5224.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	5549.0	0.0	5549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.2
10°-20°	165.3	3.0
20°-30°	278.4	5.0
30°-40°	455.8	8.2
40°-50°	789.2	14.2
50°-60°	1243.1	22.4
60°-70°	1623.4	29.3
70°-80°	836.1	15.1
80°-90°	90.4	1.6
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°	5549.0	100.0
0°-180°	5549.0	100.0



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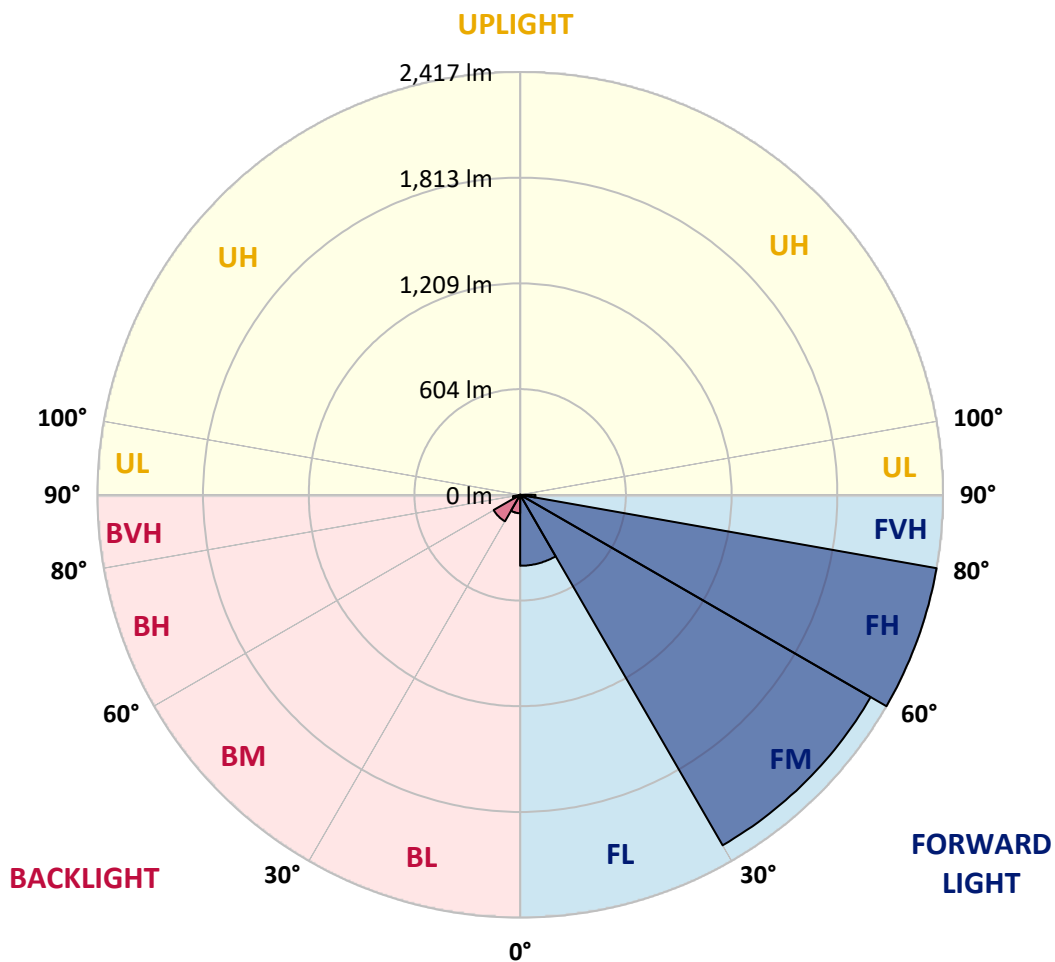
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.8	7.3			
FM	(30°-60°)	2313.6	41.7			
FH	(60°-80°)	2417.4	43.6			G2/5000
FVH	(80°-90°)	87.6	1.6			G1/100
BL	(0°-30°)	105.2	1.9	B0/110		
BM	(30°-60°)	174.5	3.1	B0/220		
BH	(60°-80°)	42.2	0.8	B0/110		G0/110
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0
2.5°	910.3	905.3	902.4	898.4	893.5	889.2	887.5	875.3	863.7	847.9	829.7
5°	927.1	925.5	920.2	914.9	909.0	902.4	898.7	884.2	867.7	844.6	812.9
7.5°	928.8	926.8	920.2	912.9	904.7	896.8	890.5	876.0	860.8	837.3	798.7
10°	926.2	923.8	918.9	911.0	900.7	893.1	886.9	873.0	860.1	839.0	796.0
12.5°	923.2	920.9	918.6	914.6	905.7	900.4	895.1	881.9	870.3	852.5	805.6
15°	926.2	924.8	927.5	925.8	920.9	916.2	911.0	899.1	888.5	873.6	823.1
17.5°	938.7	938.7	947.0	948.0	943.3	936.7	929.1	917.2	908.3	895.8	843.9
20°	968.1	967.1	977.7	979.7	968.4	958.2	947.0	932.4	925.5	917.6	864.4
22.5°	1018.6	1014.0	1020.3	1018.3	996.2	980.3	966.5	948.6	945.0	941.4	887.2
25°	1084.4	1081.7	1086.0	1066.5	1027.6	1006.1	989.6	969.4	969.4	973.1	912.9
27.5°	1179.8	1169.9	1155.4	1121.0	1062.6	1035.2	1017.3	995.8	1001.5	1015.0	947.0
30°	1277.6	1266.7	1233.3	1180.5	1105.2	1076.4	1055.6	1033.2	1046.4	1071.2	992.5
32.5°	1374.0	1361.8	1314.6	1247.9	1166.3	1137.5	1117.4	1092.6	1114.8	1156.4	1059.3
35°	1467.5	1456.6	1402.1	1323.5	1247.5	1223.8	1205.3	1183.8	1212.2	1270.3	1153.4
37.5°	1572.6	1560.7	1494.3	1409.1	1346.3	1329.1	1315.6	1294.1	1343.7	1428.9	1284.5
40°	1701.7	1681.5	1592.0	1507.2	1460.6	1452.3	1443.1	1440.1	1517.1	1635.0	1459.3
42.5°	1849.7	1816.6	1694.4	1610.5	1586.1	1592.0	1589.7	1602.9	1734.1	1891.3	1672.0
45°	1997.6	1955.0	1808.4	1720.9	1724.2	1745.0	1757.8	1810.7	2005.9	2185.3	1900.9
47.5°	2123.2	2081.2	1917.7	1840.1	1879.7	1920.7	1955.7	2055.8	2285.3	2474.6	2078.9
50°	2230.5	2190.9	2033.6	1971.2	2060.4	2126.5	2183.3	2331.6	2585.9	2694.9	2203.8
52.5°	2318.4	2291.9	2153.9	2121.5	2266.8	2363.6	2446.9	2624.6	2852.1	2873.9	2300.9
55°	2403.9	2385.1	2283.0	2300.2	2509.3	2641.1	2746.4	2935.4	3081.4	3023.2	2394.0
57.5°	2502.3	2485.2	2430.3	2526.8	2828.0	2993.8	3108.8	3210.8	3283.2	3175.8	2481.9
60°	2602.8	2592.8	2594.2	2778.5	3194.0	3353.2	3416.6	3443.0	3481.3	3319.5	2486.8
62.5°	2698.5	2717.4	2781.4	3058.6	3544.4	3666.6	3698.7	3724.8	3679.9	3342.3	2297.6
65°	2860.7	2891.4	3044.4	3433.5	3929.9	4060.7	4093.7	4004.2	3711.2	3047.7	1868.8
67.5°	2940.0	2996.1	3269.0	3782.9	4303.8	4449.1	4436.9	4022.4	3330.4	2324.0	1199.3
69°	2923.5	2983.3	3320.8	3889.9	4428.0	4559.8	4482.2	3800.1	2837.3	1683.5	736.2
70°	2858.1	2918.5	3294.1	3886.0	4443.8	4548.2	4398.3	3525.6	2399.0	1231.0	460.4
72.5°	2386.7	2438.9	2924.5	3512.4	4093.7	4008.8	3679.5	2442.6	1168.9	335.3	103.7
75°	1469.2	1498.2	2098.4	2646.0	3091.9	2873.9	2451.5	1215.2	348.5	94.8	57.5
77.5°	776.2	789.4	1148.8	1559.7	1960.0	1621.8	1256.5	474.0	160.5	59.5	41.6
80°	458.8	468.7	618.6	713.1	848.2	708.5	502.4	291.0	114.9	37.3	37.0
82.5°	262.6	268.9	448.5	396.4	334.3	285.4	250.0	275.8	69.0	25.1	38.3
85°	96.4	97.8	252.3	301.6	198.8	118.2	124.2	228.6	18.5	15.9	30.1
87.5°	44.9	43.9	129.8	184.6	116.3	75.0	96.8	50.2	7.3	10.2	8.3
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°	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0	829.0
2.5°	819.1	806.9	784.8	762.0	738.9	721.0	703.5	689.7	685.0	676.5	677.1
5°	794.0	771.6	725.3	678.4	629.5	589.3	551.3	520.6	505.7	490.5	490.5
7.5°	772.2	739.5	667.2	590.9	512.0	445.6	385.8	340.9	316.1	296.3	295.9
10°	764.0	719.7	618.6	509.3	399.3	308.8	237.8	192.2	168.8	153.6	152.9
12.5°	767.6	712.8	581.3	434.0	295.9	198.5	137.7	108.3	98.4	93.8	93.8
15°	778.2	710.8	544.0	360.4	209.1	124.2	91.5	83.6	82.9	82.9	82.9
17.5°	791.1	711.5	505.7	288.7	142.4	88.9	78.9	78.0	78.6	78.6	78.6
20°	804.3	711.8	464.4	222.3	100.4	77.3	74.3	74.0	74.6	74.6	75.0
22.5°	820.5	713.4	423.1	166.1	82.9	73.0	70.7	70.7	71.0	71.0	70.7
25°	839.0	716.7	380.2	123.2	75.6	70.0	68.0	67.7	68.0	67.7	67.4
27.5°	862.1	721.4	332.3	96.4	72.3	67.1	65.4	65.4	65.1	64.7	64.4
30°	891.1	726.7	278.4	81.9	69.0	64.4	62.8	62.4	62.1	61.4	61.4
32.5°	935.4	738.2	225.3	74.3	65.4	60.8	59.5	59.5	58.8	58.1	57.8
35°	1003.4	761.0	177.7	69.7	61.4	56.8	55.2	55.2	54.5	54.2	53.8
37.5°	1097.6	795.7	138.1	65.4	57.5	52.5	50.9	50.5	49.9	49.2	48.9
40°	1222.8	838.6	108.7	61.4	53.5	48.2	46.9	46.2	44.9	43.9	43.9
42.5°	1380.0	887.5	88.2	57.1	48.9	44.3	43.3	42.3	40.0	39.0	38.6
45°	1544.5	931.4	74.6	52.2	44.3	40.3	39.6	38.0	35.0	34.0	34.0
47.5°	1663.1	941.7	65.7	47.6	40.0	36.0	35.7	32.7	30.1	29.4	29.1
50°	1737.0	921.5	58.5	42.9	36.0	32.0	31.0	27.4	25.8	25.1	24.8
52.5°	1786.9	885.5	52.5	39.0	32.4	28.4	26.1	23.5	22.1	21.5	21.5
55°	1826.9	834.7	46.6	35.3	29.4	25.4	22.1	20.1	18.8	18.2	18.2
57.5°	1838.1	765.6	40.6	32.4	26.4	22.5	18.8	17.5	15.9	15.5	15.5
60°	1756.5	641.1	36.0	28.7	23.8	19.5	16.5	14.9	13.2	12.9	12.6
62.5°	1541.5	496.1	31.7	25.4	20.8	16.8	14.2	12.2	10.9	10.9	10.9
65°	1175.9	332.6	27.7	22.1	18.2	14.2	12.2	9.9	9.2	9.2	9.6
67.5°	703.9	181.0	23.8	18.8	15.5	11.9	10.2	8.6	8.3	8.6	8.6
69°	412.5	106.4	21.5	16.8	13.5	10.6	8.9	7.6	8.3	8.6	8.6
70°	254.7	71.7	19.8	15.2	12.2	9.6	8.3	7.3	7.9	8.3	8.3
72.5°	71.0	37.0	15.9	11.9	9.9	7.9	6.6	6.6	7.6	7.9	7.9
75°	46.2	27.4	12.2	8.9	7.6	6.3	5.6	6.3	7.3	7.6	7.6
77.5°	38.3	22.5	9.9	7.3	6.3	5.9	5.3	5.6	6.6	6.9	6.9
80°	35.0	15.9	7.9	6.6	5.6	5.3	5.0	4.6	5.9	6.3	6.3
82.5°	33.4	12.6	6.9	5.9	5.3	4.6	4.3	4.6	5.3	5.6	5.9
85°	20.8	8.3	6.3	5.6	4.6	4.3	4.3	4.3	5.0	5.3	5.3
87.5°	7.6	6.6	5.6	4.6	4.0	4.0	4.0	4.0	4.3	5.0	5.0
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)