

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: P190919

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4216.6 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G0

Input Watts (W): 44
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

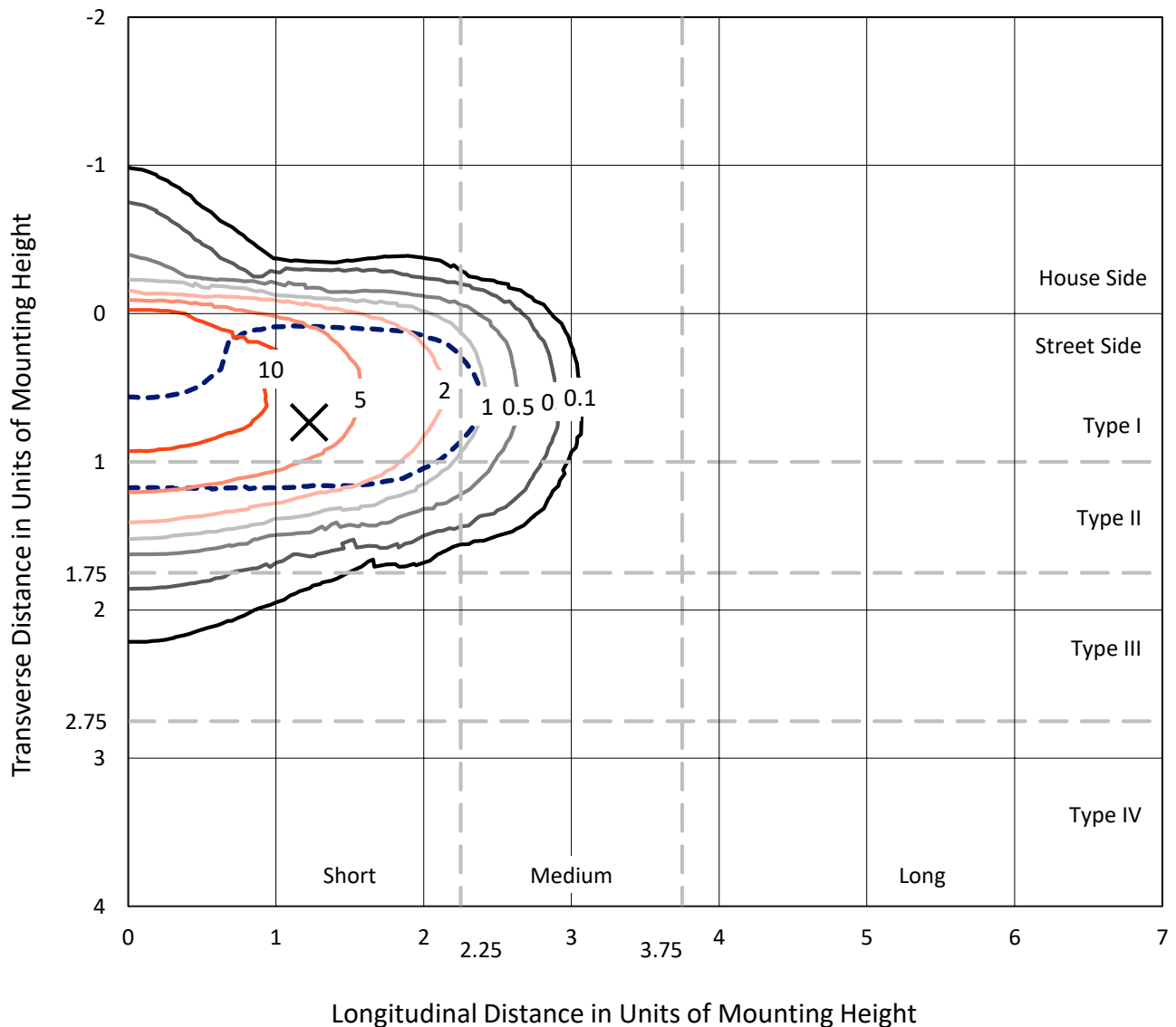


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

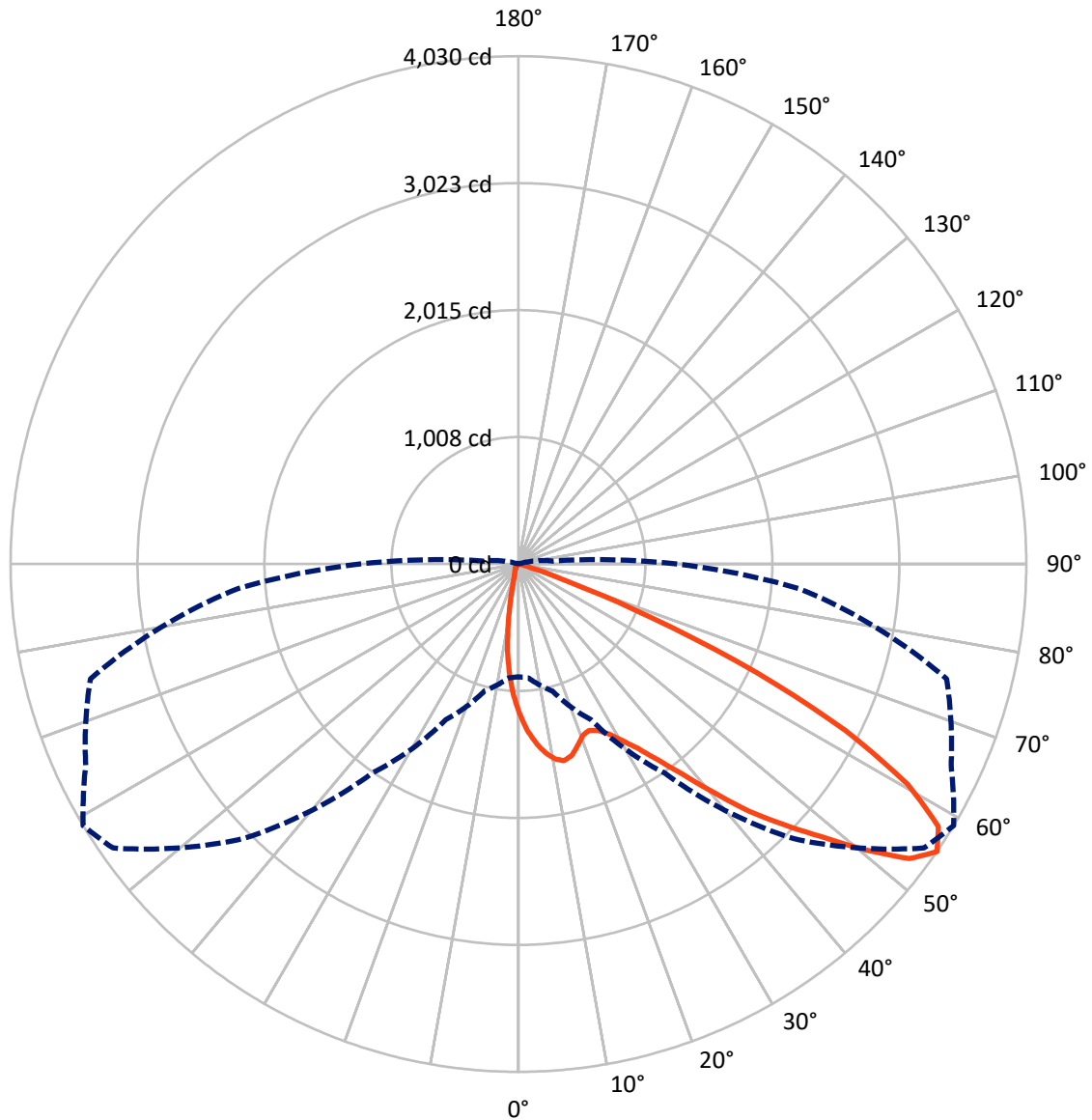


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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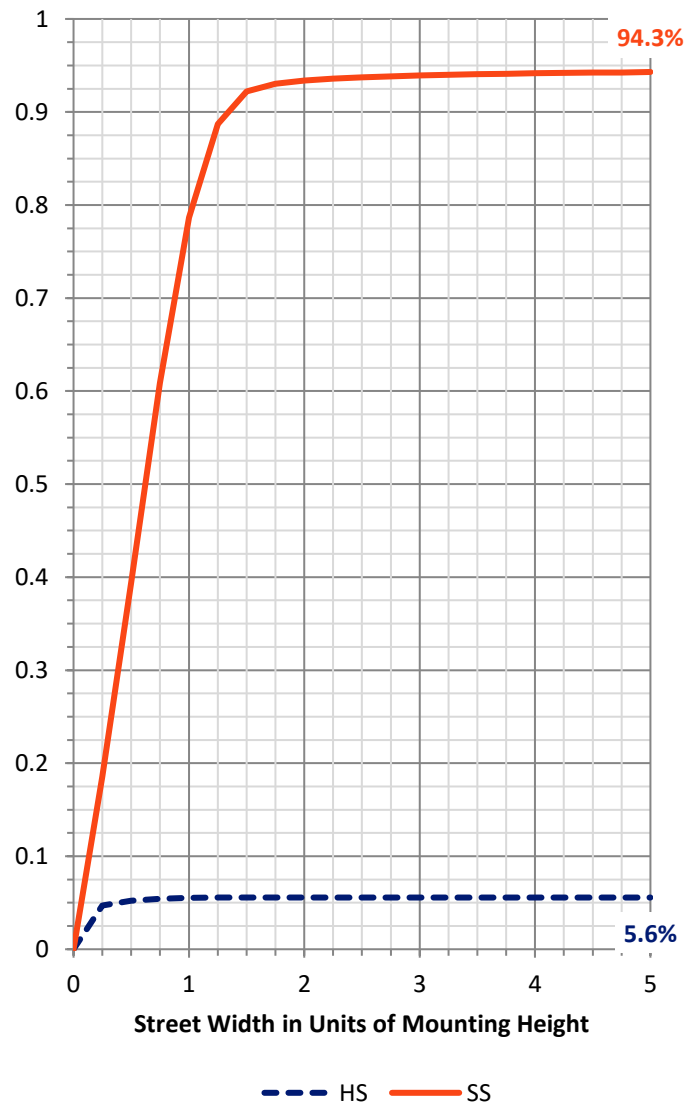
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	235.5	0.0	235.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3981.1	0.0	3981.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	4216.6	0.0	4216.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	2.4
10°-20°	238.0	5.6
20°-30°	405.1	9.6
30°-40°	696.6	16.5
40°-50°	1075.5	25.5
50°-60°	1081.2	25.6
60°-70°	554.4	13.1
70°-80°	60.1	1.4
80°-90°	6.3	0.1
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°	4216.6	100.0
0°-180°	4216.6	100.0



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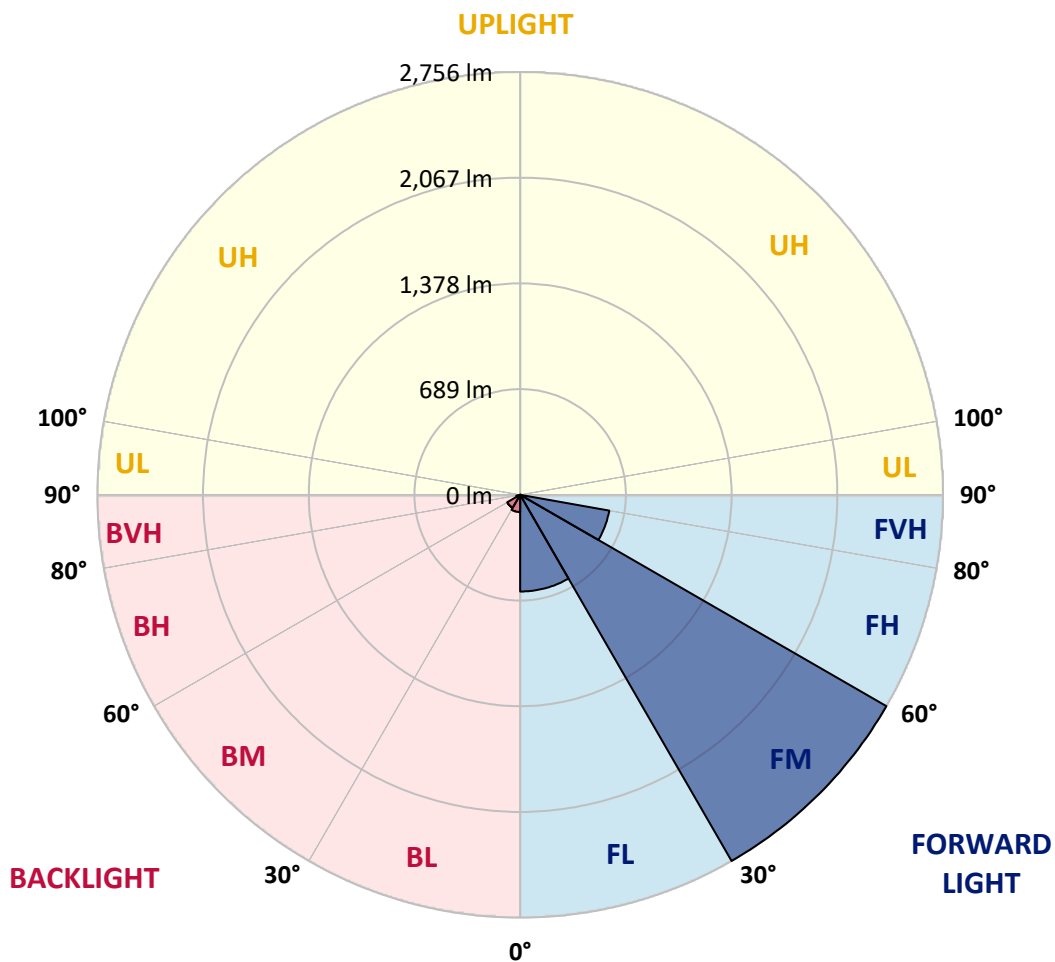
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	630.1	14.9			
FM	(30°-60°)	2755.5	65.3			
FH	(60°-80°)	589.3	14.0			G0/660
FVH	(80°-90°)	6.2	0.1			G0/10
BL	(0°-30°)	112.4	2.7	B1/500		
BM	(30°-60°)	97.7	2.3	B0/220		
BH	(60°-80°)	25.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1404.4	1389.5	1385.1	1382.0	1368.4	1351.2	1327.8	1316.8	1294.4	1258.3	1214.0
5°	1533.1	1530.3	1520.4	1514.9	1500.3	1475.8	1438.6	1420.6	1385.1	1324.3	1244.9
7.5°	1476.8	1494.0	1507.7	1530.6	1559.5	1558.5	1527.2	1508.4	1468.7	1388.6	1279.3
10°	1259.7	1273.6	1296.0	1347.9	1453.9	1547.5	1584.3	1570.9	1539.0	1447.5	1312.3
12.5°	1217.1	1215.6	1219.6	1234.7	1290.2	1423.6	1574.6	1601.7	1595.3	1501.5	1343.7
15°	1239.7	1238.0	1237.5	1242.7	1256.2	1312.3	1501.7	1579.6	1629.7	1551.5	1370.3
17.5°	1303.1	1295.7	1291.7	1287.5	1283.5	1297.4	1414.1	1517.6	1634.9	1595.3	1392.5
20°	1411.9	1399.5	1384.8	1360.9	1338.5	1331.6	1377.3	1453.9	1616.2	1628.6	1407.0
22.5°	1548.5	1532.6	1507.2	1463.6	1418.1	1391.7	1395.5	1433.8	1588.3	1665.0	1413.6
25°	1702.1	1681.6	1647.8	1587.3	1520.4	1473.7	1449.2	1462.7	1575.7	1707.5	1421.4
27.5°	1866.6	1843.9	1799.6	1717.2	1641.3	1578.1	1528.4	1526.7	1597.3	1763.3	1433.8
30°	2029.5	2026.1	1968.3	1881.2	1780.7	1703.8	1632.1	1622.9	1657.8	1840.4	1458.4
32.5°	2247.0	2220.9	2150.2	2060.6	1944.6	1852.4	1767.5	1746.1	1750.6	1930.2	1496.5
35°	2521.3	2492.6	2393.1	2269.4	2139.8	2030.8	1937.0	1907.8	1896.9	2077.3	1560.7
37.5°	2698.4	2697.9	2635.4	2509.5	2370.5	2250.3	2148.2	2114.1	2091.9	2255.0	1660.2
40°	2703.1	2714.8	2723.0	2721.8	2622.7	2512.1	2421.4	2379.4	2327.9	2492.3	1788.9
42.5°	2558.1	2588.2	2660.6	2783.6	2842.3	2798.2	2721.8	2680.4	2603.8	2746.4	1945.7
45°	2362.0	2382.9	2509.5	2736.0	2961.1	3081.8	3023.6	2949.7	2848.7	3011.5	2086.3
47.5°	2274.1	2277.9	2359.7	2608.3	2970.1	3314.3	3349.7	3229.5	3071.2	3225.0	2196.3
50°	2011.6	2018.3	2131.3	2387.1	2865.1	3424.0	3677.1	3563.1	3313.7	3389.4	2236.3
52.5°	1516.2	1525.6	1668.9	2023.6	2576.5	3377.3	3911.5	3883.8	3579.5	3469.8	2238.5
55°	894.6	907.1	1043.9	1362.2	2026.6	3079.6	3928.9	4030.4	3789.3	3517.3	2235.0
57.5°	417.8	426.5	504.9	701.7	1260.4	2433.9	3666.7	3929.9	3905.0	3542.5	2259.7
60°	222.0	224.4	243.4	303.8	569.6	1543.3	3154.8	3548.7	3799.5	3577.3	2289.8
62.5°	169.7	170.4	169.5	176.7	239.4	685.1	2384.6	2917.4	3374.7	3551.2	2256.4
65°	147.1	148.3	141.4	139.6	153.5	244.4	1416.7	2079.6	2651.9	3198.6	2029.2
67.5°	131.9	132.4	123.9	116.7	119.2	132.2	558.9	1138.4	1755.3	2344.6	1470.9
70°	121.4	120.9	111.7	100.2	97.1	90.3	177.7	417.3	838.8	1189.0	684.0
72.5°	107.5	107.7	103.3	88.4	80.6	63.2	82.3	121.7	250.3	324.0	160.3
75°	95.3	94.1	88.6	79.2	66.4	41.5	40.8	54.2	77.1	76.6	34.6
77.5°	68.9	67.7	69.5	65.0	51.0	26.9	20.4	26.1	31.4	30.4	9.7
80°	50.5	49.8	44.8	54.0	45.0	18.4	12.7	13.9	16.2	13.7	3.0
82.5°	34.6	34.4	31.6	29.9	25.7	11.2	8.0	8.7	10.4	7.7	1.5
85°	5.5	6.2	22.9	18.2	15.1	5.0	5.5	5.9	7.0	4.2	0.5
87.5°	0.0	0.0	10.7	9.4	3.0	1.9	3.3	3.5	3.5	2.3	0.0
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°	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1191.4	1166.6	1120.5	1073.0	1029.0	976.4	940.4	913.2	881.9	873.4	891.8
5°	1199.6	1152.7	1053.5	945.8	844.5	732.3	646.5	578.6	517.1	496.2	515.1
7.5°	1212.6	1142.6	981.2	803.7	627.6	452.3	332.5	253.6	203.3	188.3	196.3
10°	1225.5	1128.2	897.3	635.6	394.7	220.2	143.3	114.5	103.7	101.5	102.8
12.5°	1236.2	1108.8	795.0	451.9	211.0	117.9	93.8	89.1	87.6	87.6	88.1
15°	1242.7	1079.4	673.8	287.4	121.4	89.1	81.8	80.4	80.4	80.6	81.1
17.5°	1242.0	1042.2	541.2	173.9	90.8	78.9	74.7	73.4	73.1	73.7	73.9
20°	1232.8	993.4	408.1	114.7	79.2	71.9	67.7	65.5	65.2	65.7	66.2
22.5°	1215.4	933.1	291.8	88.4	71.4	65.2	59.9	58.0	58.0	58.5	59.0
25°	1194.2	859.5	199.6	74.9	64.4	58.0	53.0	51.2	51.8	53.0	53.3
27.5°	1167.8	776.6	135.6	64.2	56.0	50.7	47.1	45.8	47.1	48.8	49.3
30°	1145.2	690.3	96.8	55.4	47.6	43.8	41.5	41.5	43.3	46.5	47.3
32.5°	1127.7	606.7	74.7	49.0	41.3	38.1	36.8	38.1	40.8	44.1	44.8
35°	1125.5	537.8	63.2	43.8	36.8	33.6	33.1	35.3	38.1	40.6	41.0
37.5°	1142.6	474.0	57.0	39.6	32.8	29.9	29.4	32.1	34.9	37.8	38.6
40°	1175.3	424.0	52.5	35.6	29.6	26.4	25.4	27.4	31.1	35.1	36.1
42.5°	1217.5	382.7	47.6	31.6	26.4	21.9	20.7	22.9	26.9	31.1	32.3
45°	1257.9	347.1	42.0	27.1	22.1	16.9	16.5	19.4	21.4	25.7	26.6
47.5°	1280.0	315.8	37.3	22.1	17.2	13.7	13.7	14.4	16.5	21.4	22.4
50°	1272.6	290.6	32.3	16.5	12.0	10.4	10.4	10.2	13.2	17.2	17.9
52.5°	1257.6	276.2	27.8	12.7	8.2	7.5	6.8	7.5	9.2	10.9	11.2
55°	1255.4	273.7	23.4	10.2	5.7	5.0	3.7	3.7	3.7	3.5	3.0
57.5°	1272.9	277.7	19.6	8.2	4.2	3.3	1.9	0.0	0.0	0.0	0.0
60°	1290.8	281.9	16.9	5.7	3.0	1.7	0.2	0.0	0.0	0.0	0.0
62.5°	1260.9	272.5	14.2	3.5	2.3	0.7	0.0	0.0	0.0	0.0	0.0
65°	1107.5	231.9	11.2	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	787.8	155.3	7.5	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	359.6	65.0	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	76.9	20.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.7	14.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.0	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)