

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: P193459

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193459
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-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3364 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - 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

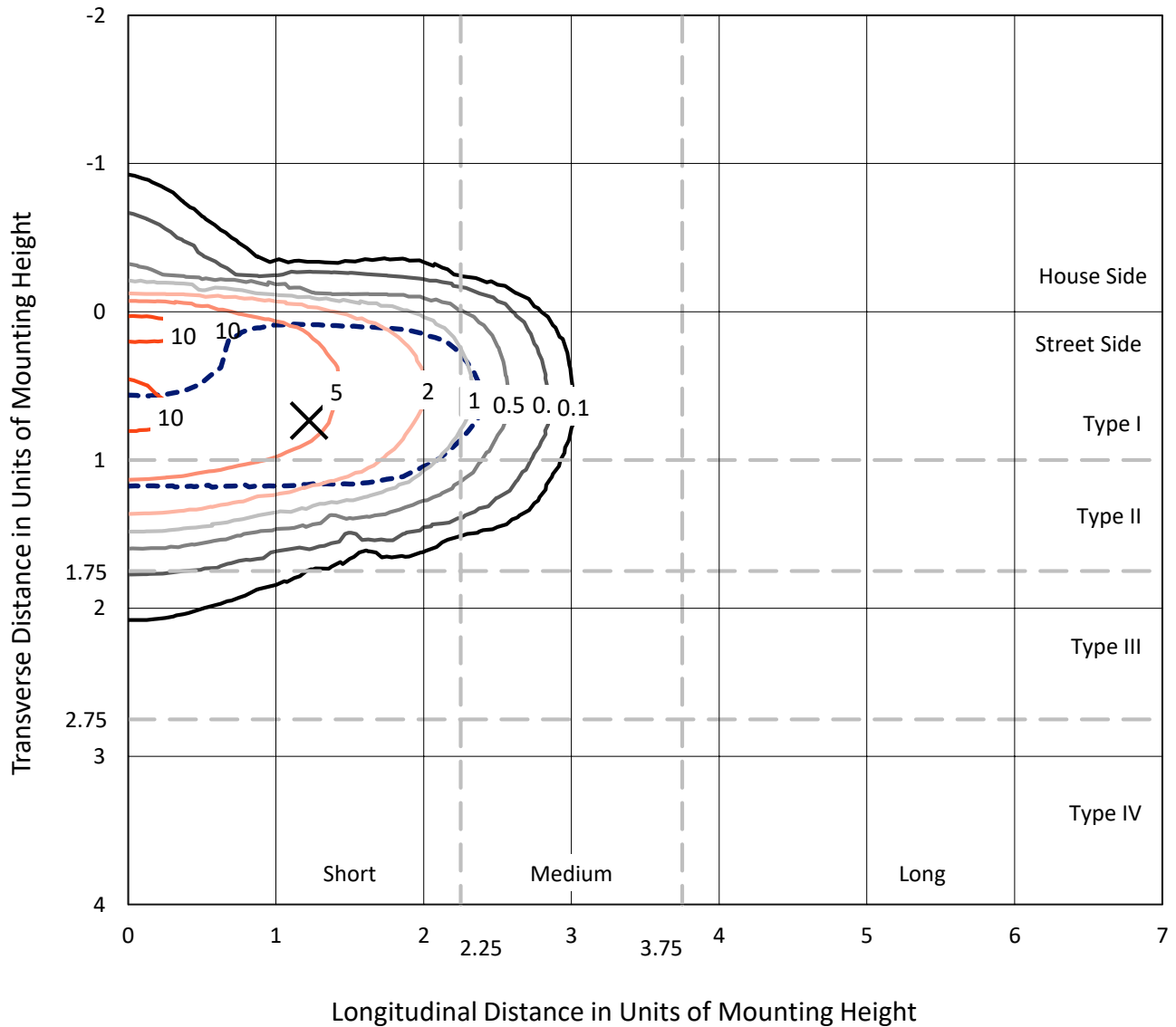


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

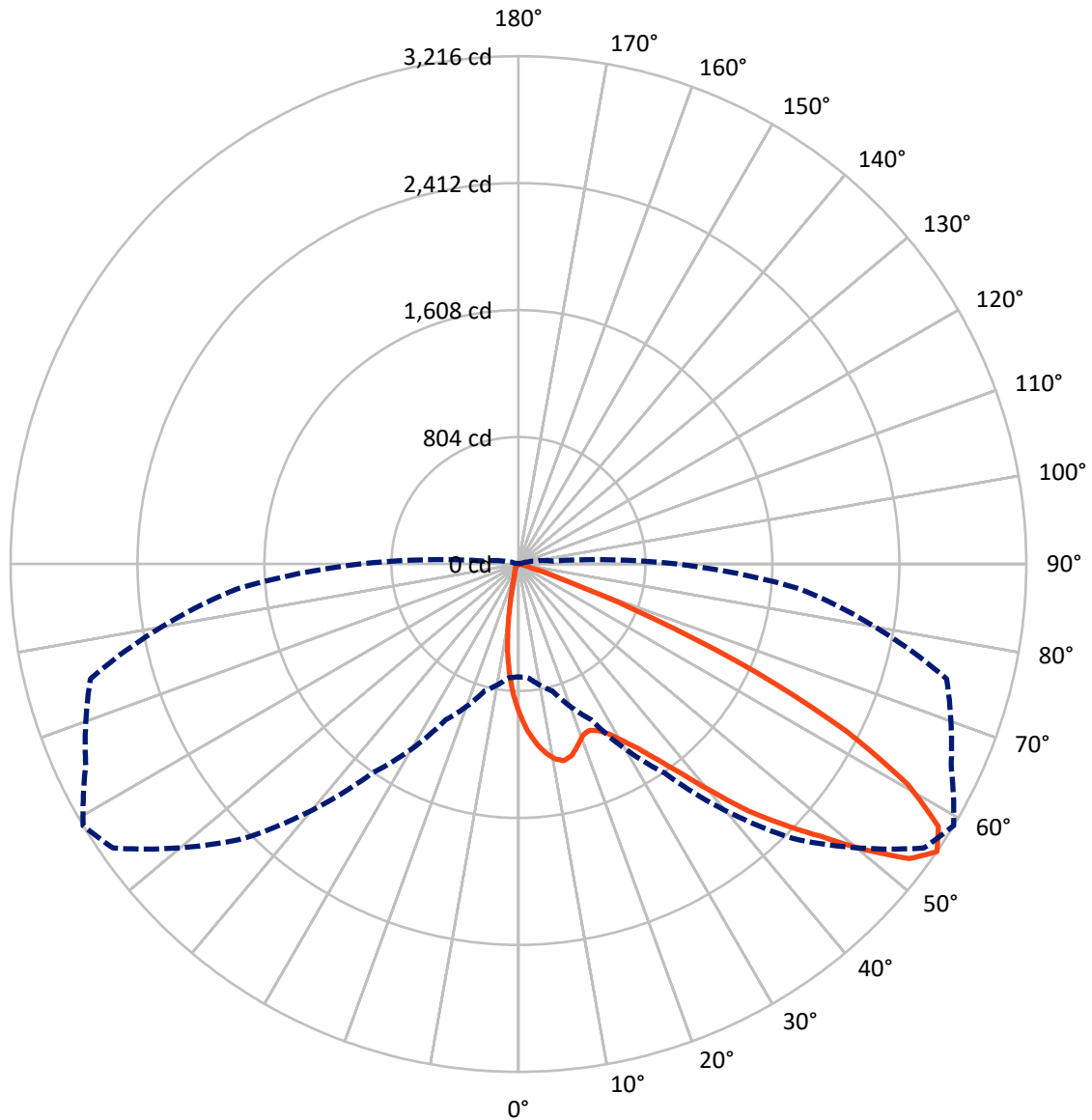


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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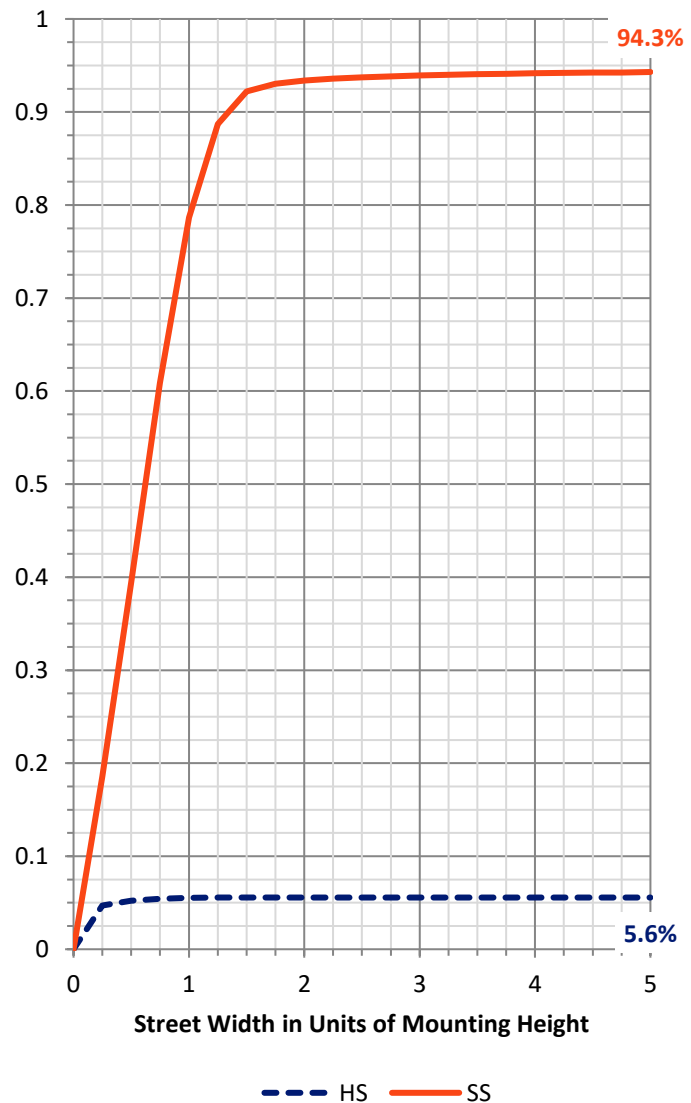
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	187.9	0.0	187.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3176.1	0.0	3176.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	3364.0	0.0	3364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	2.4
10°-20°	189.9	5.6
20°-30°	323.2	9.6
30°-40°	555.7	16.5
40°-50°	858.0	25.5
50°-60°	862.6	25.6
60°-70°	442.3	13.1
70°-80°	47.9	1.4
80°-90°	5.0	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°	3364.0	100.0
0°-180°	3364.0	100.0

Coefficient of Utilization



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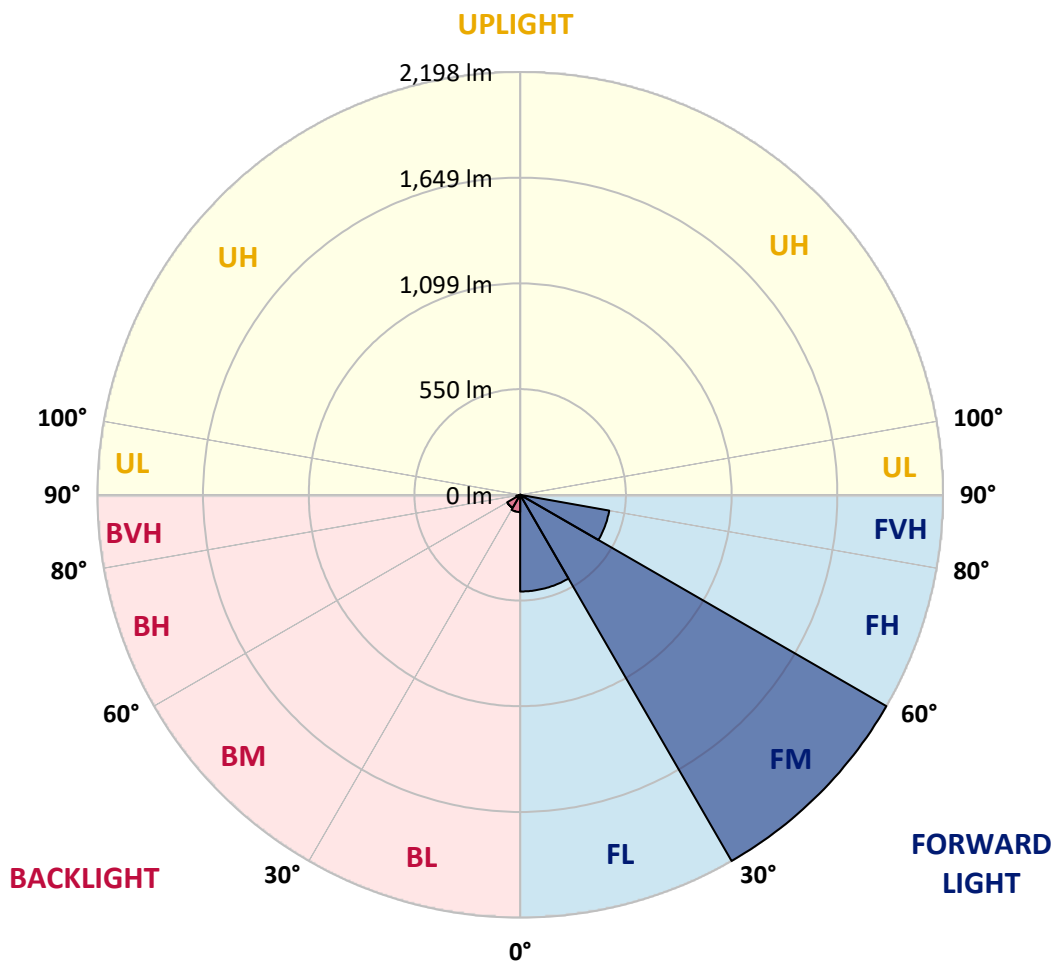
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.7	14.9			
FM	(30°-60°)	2198.4	65.3			
FH	(60°-80°)	470.1	14.0			G0/660
FVH	(80°-90°)	4.9	0.1			G0/10
BL	(0°-30°)	89.7	2.7	B0/110		
BM	(30°-60°)	78.0	2.3	B0/220		
BH	(60°-80°)	20.1	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: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0
2.5°	1120.5	1108.6	1105.0	1102.6	1091.7	1078.0	1059.3	1050.6	1032.7	1003.9	968.6
5°	1223.1	1220.9	1213.0	1208.6	1196.9	1177.4	1147.7	1133.4	1105.0	1056.5	993.2
7.5°	1178.2	1191.9	1202.8	1221.1	1244.1	1243.3	1218.3	1203.4	1171.7	1107.8	1020.6
10°	1004.9	1016.0	1033.9	1075.4	1160.0	1234.6	1264.0	1253.3	1227.9	1154.8	1047.0
12.5°	971.0	969.8	973.0	985.1	1029.3	1135.7	1256.3	1277.9	1272.7	1197.9	1072.0
15°	989.0	987.7	987.3	991.4	1002.1	1047.0	1198.1	1260.2	1300.1	1237.8	1093.3
17.5°	1039.7	1033.7	1030.5	1027.2	1024.0	1035.1	1128.2	1210.8	1304.3	1272.7	1110.9
20°	1126.4	1116.5	1104.8	1085.7	1067.9	1062.3	1098.8	1160.0	1289.4	1299.3	1122.4
22.5°	1235.4	1222.7	1202.5	1167.7	1131.4	1110.3	1113.3	1143.9	1267.2	1328.3	1127.8
25°	1357.9	1341.6	1314.6	1266.4	1213.0	1175.7	1156.2	1166.9	1257.0	1362.3	1134.0
27.5°	1489.1	1471.1	1435.7	1370.0	1309.5	1259.0	1219.3	1217.9	1274.3	1406.7	1143.9
30°	1619.2	1616.4	1570.3	1500.8	1420.6	1359.3	1302.1	1294.8	1322.6	1468.3	1163.5
32.5°	1792.7	1771.8	1715.4	1644.0	1551.5	1477.8	1410.1	1393.0	1396.6	1539.9	1193.9
35°	2011.4	1988.6	1909.2	1810.5	1707.1	1620.1	1545.3	1522.1	1513.3	1657.3	1245.1
37.5°	2152.8	2152.4	2102.6	2002.1	1891.1	1795.2	1713.8	1686.6	1669.0	1799.0	1324.5
40°	2156.6	2165.9	2172.4	2171.4	2092.4	2004.1	1931.8	1898.3	1857.2	1988.4	1427.2
42.5°	2040.8	2064.8	2122.6	2220.7	2267.5	2232.4	2171.4	2138.5	2077.3	2191.1	1552.2
45°	1884.4	1901.1	2002.1	2182.8	2362.4	2458.7	2412.3	2353.3	2272.7	2402.5	1664.4
47.5°	1814.3	1817.3	1882.6	2080.9	2369.6	2644.1	2672.3	2576.4	2450.2	2572.9	1752.2
50°	1604.9	1610.2	1700.3	1904.4	2285.8	2731.7	2933.6	2842.6	2643.7	2704.1	1784.1
52.5°	1209.6	1217.1	1331.5	1614.4	2055.5	2694.4	3120.6	3098.5	2855.8	2768.2	1785.9
55°	713.7	723.6	832.8	1086.7	1616.8	2456.9	3134.5	3215.5	3023.1	2806.1	1783.1
57.5°	333.3	340.3	402.8	559.8	1005.5	1941.8	2925.2	3135.3	3115.4	2826.2	1802.8
60°	177.1	179.1	194.2	242.4	454.4	1231.2	2516.9	2831.1	3031.2	2854.0	1826.8
62.5°	135.4	136.0	135.2	141.0	191.0	546.5	1902.4	2327.5	2692.4	2833.1	1800.2
65°	117.3	118.3	112.8	111.4	122.5	194.9	1130.2	1659.1	2115.7	2551.8	1619.0
67.5°	105.2	105.6	98.9	93.1	95.1	105.4	445.9	908.2	1400.4	1870.5	1173.5
70°	96.9	96.5	89.1	80.0	77.4	72.1	141.7	332.9	669.2	948.5	545.7
72.5°	85.8	86.0	82.4	70.5	64.3	50.4	65.7	97.1	199.7	258.5	127.8
75°	76.0	75.0	70.7	63.1	53.0	33.2	32.6	43.3	61.5	61.1	27.6
77.5°	55.0	54.0	55.4	51.8	40.7	21.4	16.3	20.8	25.0	24.2	7.7
80°	40.3	39.7	35.7	43.1	35.9	14.7	10.1	11.1	12.9	10.9	2.4
82.5°	27.6	27.4	25.2	23.8	20.4	8.9	6.4	6.9	8.3	6.2	1.2
85°	4.4	5.0	18.3	14.5	12.1	4.0	4.4	4.8	5.6	3.4	0.4
87.5°	0.0	0.0	8.5	7.5	2.4	1.6	2.6	2.8	2.8	1.8	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°	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0
2.5°	950.5	930.7	893.9	856.0	820.9	779.0	750.2	728.6	703.6	696.8	711.5
5°	957.1	919.6	840.5	754.6	673.8	584.3	515.8	461.6	412.5	395.9	410.9
7.5°	967.4	911.6	782.8	641.2	500.7	360.9	265.2	202.3	162.2	150.3	156.6
10°	977.7	900.1	715.9	507.0	314.9	175.7	114.3	91.3	82.8	81.0	82.0
12.5°	986.3	884.6	634.3	360.5	168.3	94.1	74.8	71.1	69.9	69.9	70.3
15°	991.4	861.2	537.6	229.3	96.9	71.1	65.3	64.1	64.1	64.3	64.7
17.5°	990.8	831.4	431.8	138.8	72.5	62.9	59.6	58.6	58.4	58.8	59.0
20°	983.5	792.5	325.6	91.5	63.1	57.4	54.0	52.2	52.0	52.4	52.8
22.5°	969.6	744.5	232.9	70.5	57.0	52.0	47.8	46.3	46.3	46.7	47.0
25°	952.7	685.7	159.2	59.8	51.4	46.3	42.3	40.9	41.3	42.3	42.5
27.5°	931.7	619.6	108.2	51.2	44.7	40.5	37.5	36.5	37.5	38.9	39.3
30°	913.6	550.7	77.2	44.3	37.9	34.9	33.2	33.2	34.5	37.1	37.7
32.5°	899.7	484.0	59.6	39.1	33.0	30.4	29.4	30.4	32.6	35.1	35.7
35°	897.9	429.0	50.4	34.9	29.4	26.8	26.4	28.2	30.4	32.4	32.8
37.5°	911.6	378.2	45.5	31.6	26.2	23.8	23.4	25.6	27.8	30.2	30.8
40°	937.6	338.3	41.9	28.4	23.6	21.0	20.2	21.8	24.8	28.0	28.8
42.5°	971.4	305.3	37.9	25.2	21.0	17.5	16.5	18.3	21.4	24.8	25.8
45°	1003.5	276.9	33.6	21.6	17.7	13.5	13.1	15.5	17.1	20.4	21.2
47.5°	1021.2	251.9	29.8	17.7	13.7	10.9	10.9	11.5	13.1	17.1	17.9
50°	1015.2	231.9	25.8	13.1	9.5	8.3	8.3	8.1	10.5	13.7	14.3
52.5°	1003.3	220.4	22.2	10.1	6.6	6.0	5.4	6.0	7.3	8.7	8.9
55°	1001.5	218.4	18.7	8.1	4.6	4.0	3.0	3.0	3.0	2.8	2.4
57.5°	1015.4	221.6	15.7	6.6	3.4	2.6	1.6	0.0	0.0	0.0	0.0
60°	1029.7	224.9	13.5	4.6	2.4	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1005.9	217.4	11.3	2.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
65°	883.6	185.0	8.9	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	628.5	123.9	6.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	286.9	51.8	3.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	61.3	16.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.5	11.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.4	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.0	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)