

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: P543219

Luminaire Tested: **TT-D9-830-U-T4-PM**

Issue Date: 6/22/2021

Test Information

Test Method: LM-79-08
Report Number: P543219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2106-277-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D9-830-U-T4-PM
Description: TOPTIER LED SITE LUMINAIRE
3000K, 80 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14768 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

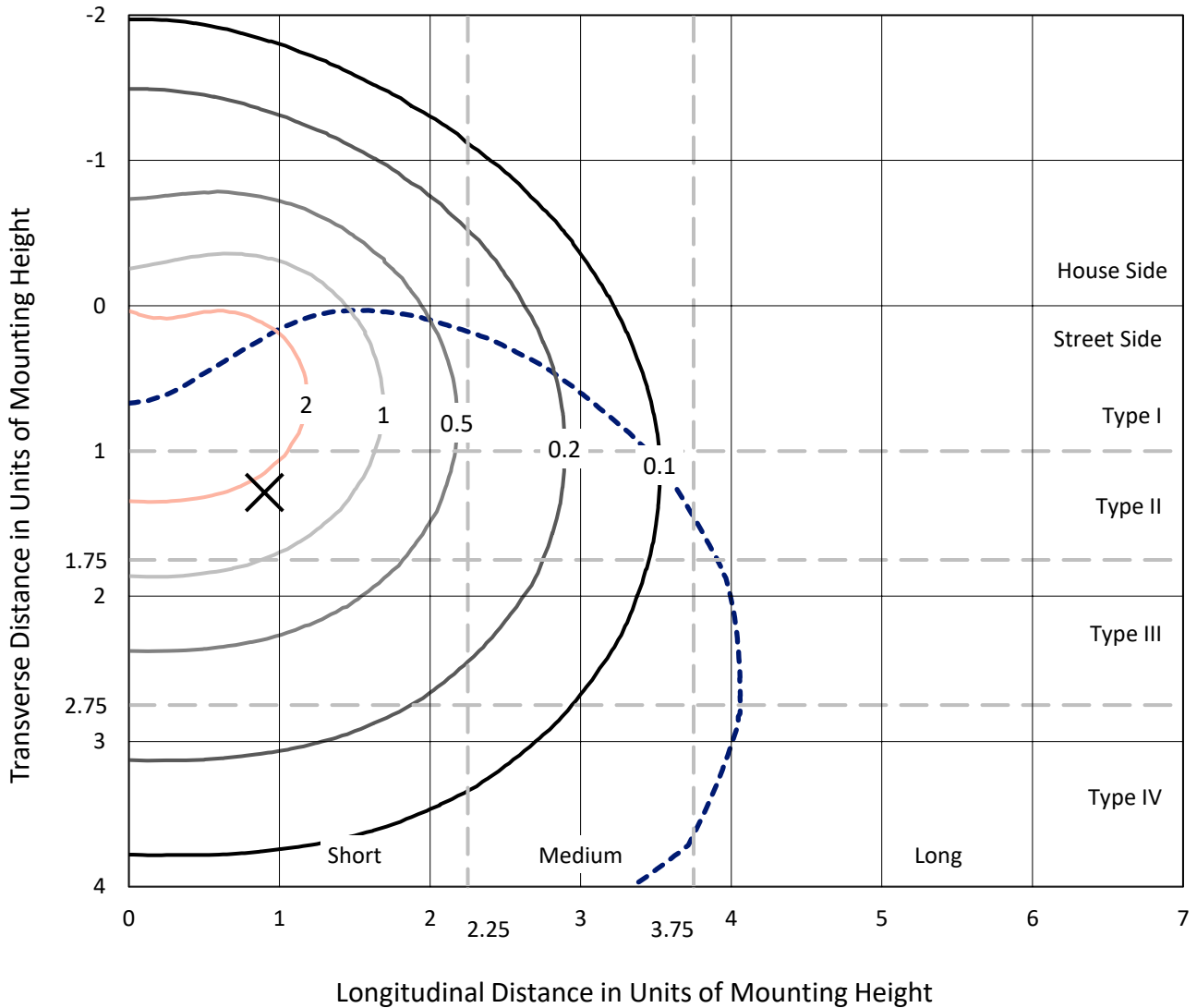
Input Watts (W): 178
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

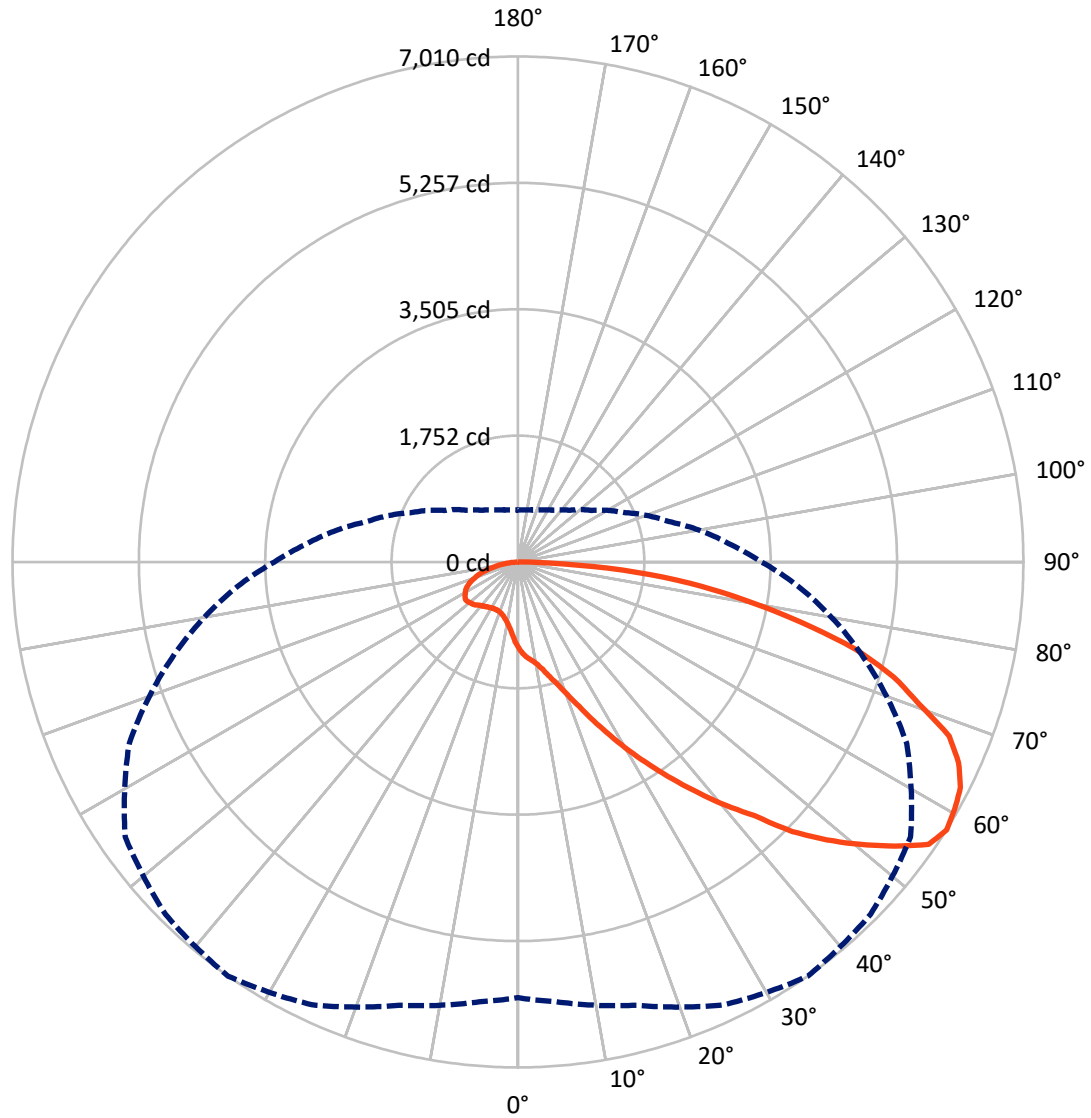
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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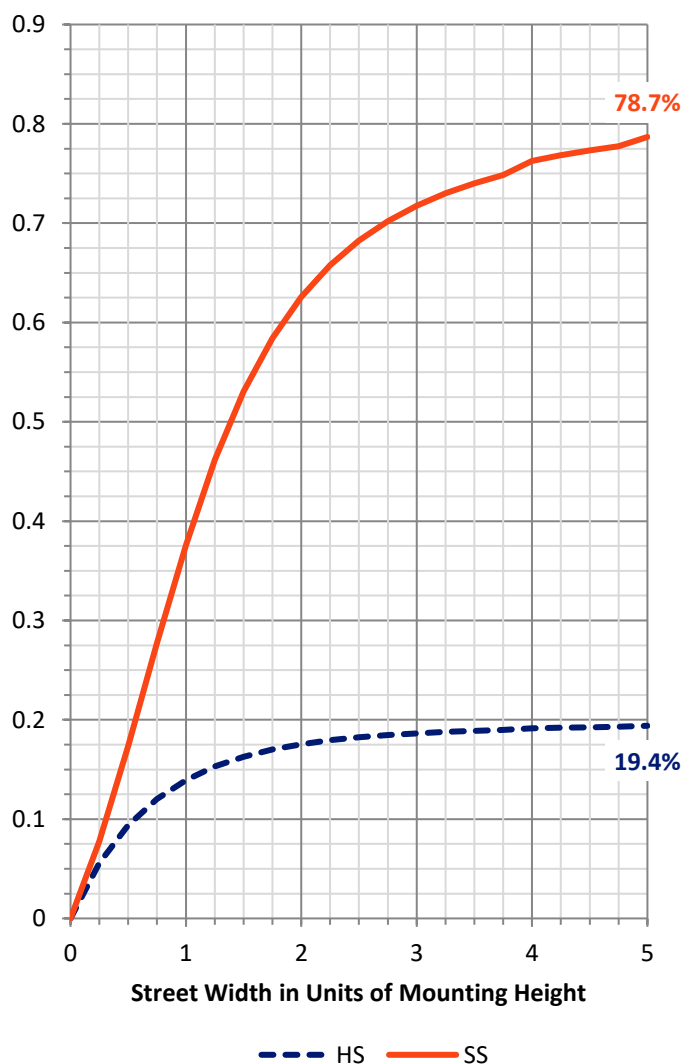
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2891.9	0.0	2891.9
	% Fixture	19.6	0.0	19.6
Street Side	Lumens	11876.1	0.0	11876.1
	% Fixture	80.4	0.0	80.4
Total	Lumens	14768.0	0.0	14768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	0.7
10°-20°	348.4	2.4
20°-30°	736.8	5.0
30°-40°	1380.4	9.3
40°-50°	2297.6	15.6
50°-60°	3242.7	22.0
60°-70°	3411.6	23.1
70°-80°	2499.3	16.9
80°-90°	740.6	5.0
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°	14768.0	100.0
0°-180°	14768.0	100.0

Coefficient of Utilization

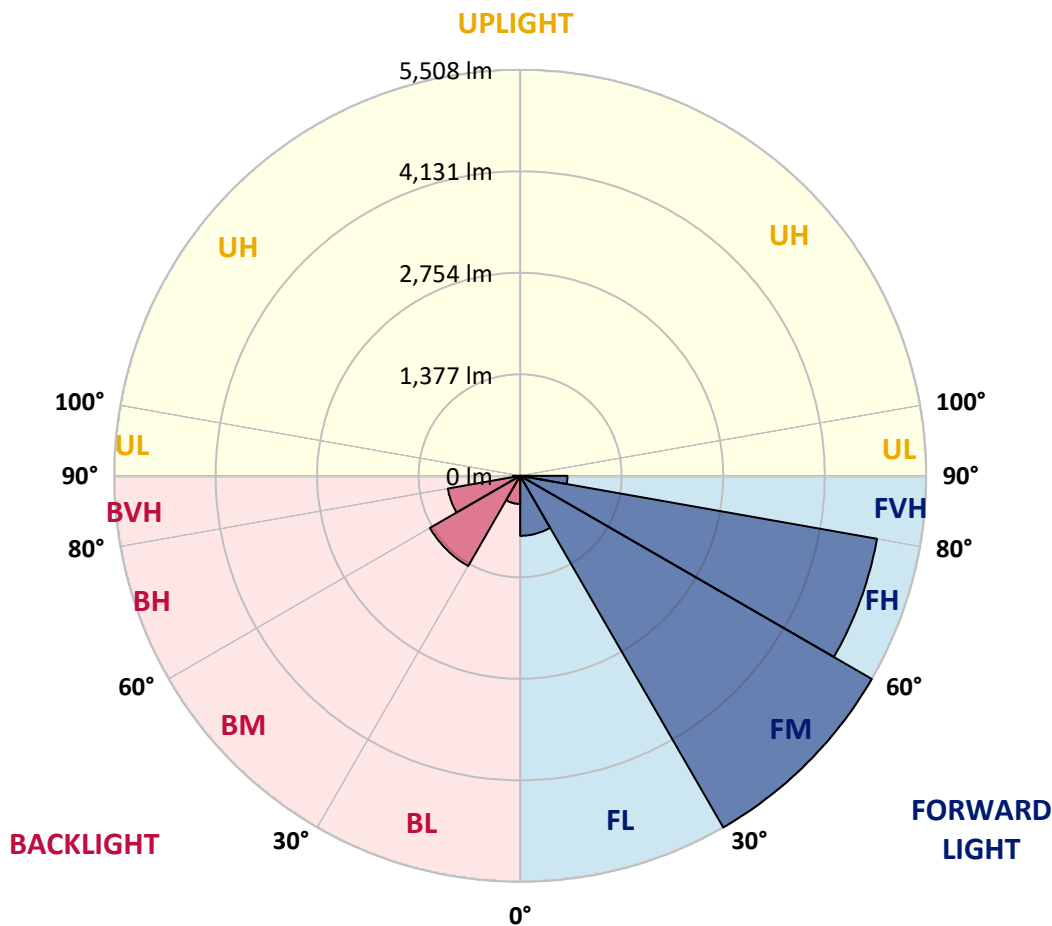


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.6	5.5			
FM (30°-60°)	5507.6	37.3			
FH (60°-80°)	4914.1	33.3			G2/5000
FVH (80°-90°)	640.7	4.3			G4/750
BL (0°-30°)	382.1	2.6	B1/500		
BM (30°-60°)	1413.2	9.6	B2/2500		
BH (60°-80°)	996.8	6.7	B2/1000		G2/1000
BVH (80°-90°)	99.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9
2.5°	1297.6	1291.3	1285.8	1276.7	1270.3	1268.5	1256.6	1242.0	1221.9	1204.6	1195.5
5°	1366.0	1365.1	1362.4	1351.4	1331.4	1303.1	1276.7	1246.6	1213.7	1180.9	1165.4
7.5°	1430.8	1424.4	1420.7	1405.2	1376.1	1345.1	1304.9	1260.2	1212.8	1166.3	1142.6
10°	1511.9	1502.8	1496.4	1466.3	1436.2	1392.5	1339.6	1282.1	1225.6	1167.2	1139.0
12.5°	1615.9	1608.6	1582.1	1567.6	1529.3	1479.1	1412.5	1343.2	1270.3	1195.5	1159.0
15°	1727.1	1729.0	1718.9	1681.5	1650.5	1590.4	1519.2	1432.6	1334.1	1243.8	1198.2
17.5°	1875.8	1873.0	1853.9	1829.3	1781.9	1720.8	1633.2	1541.1	1426.2	1307.7	1255.7
20°	2050.9	2041.7	2024.4	1990.7	1962.4	1890.4	1791.0	1676.1	1539.3	1398.9	1328.6
22.5°	2273.4	2253.3	2242.4	2212.3	2177.6	2110.1	2004.4	1852.1	1691.6	1517.4	1427.1
25°	2491.3	2502.3	2496.8	2479.5	2435.7	2352.7	2240.5	2072.8	1853.0	1649.6	1547.5
27.5°	2764.9	2769.4	2771.3	2764.0	2721.1	2645.4	2531.4	2309.8	2064.5	1811.9	1677.0
30°	3049.4	3039.4	3052.1	3055.8	3034.8	2947.3	2807.7	2565.2	2271.5	1969.7	1818.3
32.5°	3332.1	3343.0	3369.5	3353.1	3356.7	3257.3	3105.0	2819.6	2492.2	2136.6	1977.0
35°	3636.7	3651.3	3669.5	3700.5	3698.7	3619.3	3399.6	3113.2	2731.1	2329.0	2122.0
37.5°	3948.5	3944.9	3972.2	4043.4	4057.0	3981.4	3751.6	3421.5	2981.9	2523.2	2292.5
40°	4244.0	4277.7	4330.6	4378.9	4437.3	4329.7	4106.3	3732.4	3254.6	2724.8	2453.0
42.5°	4588.7	4602.4	4680.8	4789.3	4804.8	4721.8	4478.3	4090.8	3525.4	2916.3	2628.1
45°	4954.4	4972.6	5046.5	5203.3	5330.1	5276.3	4946.1	4485.6	3861.0	3177.1	2821.4
47.5°	5269.9	5323.7	5442.2	5623.7	5758.7	5730.4	5414.0	4873.2	4182.0	3395.9	3008.4
50°	5550.7	5615.5	5776.9	6038.6	6159.0	6121.6	5813.4	5256.2	4416.3	3585.6	3144.2
52.5°	5835.3	5925.5	6073.3	6359.6	6547.4	6562.0	6218.3	5548.9	4688.1	3784.4	3292.9
55°	5989.4	6055.0	6302.1	6649.6	6914.9	6922.2	6533.8	5823.4	4875.9	3871.9	3363.1
57.5°	6043.2	6122.5	6363.2	6774.5	7009.8	6912.2	6647.8	5947.4	4928.8	3903.8	3377.7
60°	5968.4	6047.7	6322.2	6760.8	6959.6	7007.0	6597.6	5946.5	4902.4	3862.8	3333.0
62.5°	5861.7	5962.9	6229.2	6656.9	6886.7	6913.1	6532.9	5879.0	4863.2	3792.6	3267.3
65°	5590.9	5652.0	6041.3	6360.5	6715.2	6683.3	6384.2	5643.8	4724.6	3611.1	3106.8
67.5°	5320.9	5384.8	5671.1	6108.8	6452.6	6418.0	6123.4	5415.8	4458.3	3442.4	2939.1
70°	4865.9	4906.9	5301.8	5641.9	5899.1	6026.8	5646.5	5035.5	4179.2	3159.7	2683.7
72.5°	4384.4	4449.2	4731.9	5158.6	5449.5	5408.5	5217.9	4567.7	3724.2	2831.5	2419.3
75°	3768.9	3830.9	4143.7	4555.9	4838.5	4805.7	4588.7	4011.5	3310.2	2450.3	2094.6
77.5°	3187.1	3167.9	3444.2	3757.0	4014.2	4089.9	3845.5	3392.3	2730.2	2013.5	1705.3
80°	2448.5	2521.4	2694.7	2985.6	3179.8	3222.7	3033.9	2684.6	2181.3	1575.8	1307.7
82.5°	1724.4	1762.7	1974.3	2157.6	2401.0	2385.5	2255.1	1949.6	1584.0	1106.1	901.0
85°	941.1	949.3	1140.8	1269.4	1457.2	1480.0	1387.9	1179.1	906.4	629.2	464.2
87.5°	165.1	162.3	235.3	344.7	437.7	470.5	391.2	306.4	124.0	73.9	38.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9	1191.9
2.5°	1185.5	1167.2	1149.9	1133.5	1118.0	1105.2	1099.8	1095.2	1094.3	1086.1
5°	1146.3	1117.1	1085.2	1056.0	1029.5	1001.3	978.5	971.2	970.3	974.8
7.5°	1120.7	1076.0	1032.3	997.6	958.4	921.0	887.3	866.3	860.8	859.0
10°	1111.6	1056.9	1004.0	951.1	907.3	861.7	820.7	795.2	780.6	776.9
12.5°	1123.5	1054.2	988.5	926.5	867.2	817.1	770.6	738.6	722.2	716.8
15°	1155.4	1066.0	983.0	908.3	843.5	780.6	735.0	694.0	674.8	672.1
17.5°	1197.3	1092.5	986.7	899.1	822.5	756.0	703.1	660.2	636.5	632.9
20°	1257.5	1126.2	1004.0	900.0	813.4	738.6	679.4	633.8	608.2	605.5
22.5°	1342.3	1180.0	1032.3	911.9	813.4	728.6	664.8	617.4	590.9	588.2
25°	1439.0	1242.0	1070.6	928.3	816.2	726.8	656.6	606.4	580.0	577.2
27.5°	1550.2	1317.7	1111.6	949.3	826.2	728.6	653.8	603.7	578.1	574.5
30°	1675.2	1392.5	1156.3	972.1	838.9	732.3	654.7	602.8	578.1	574.5
32.5°	1800.1	1474.5	1206.4	1002.2	853.5	742.3	660.2	609.1	583.6	580.9
35°	1931.4	1564.8	1262.1	1033.2	874.5	756.0	669.3	616.4	590.9	588.2
37.5°	2067.3	1656.0	1319.5	1071.5	896.4	769.6	682.1	629.2	604.6	601.9
40°	2208.6	1749.9	1380.6	1110.7	917.4	787.9	697.6	645.6	620.1	617.4
42.5°	2330.8	1834.7	1437.2	1144.4	944.7	805.2	717.7	663.0	639.2	636.5
45°	2503.2	1931.4	1495.5	1186.4	977.6	836.2	741.4	690.3	668.4	663.0
47.5°	2647.2	2029.9	1554.8	1226.5	1004.9	857.2	764.2	712.2	689.4	685.7
50°	2764.9	2091.9	1601.3	1247.5	1019.5	870.9	782.4	729.5	709.5	703.1
52.5°	2888.9	2162.1	1625.9	1272.1	1043.2	890.0	795.2	749.6	727.7	721.3
55°	2929.0	2165.8	1644.2	1276.7	1039.6	894.6	803.4	750.5	733.2	726.8
57.5°	2931.8	2164.9	1619.5	1245.7	1014.0	874.5	795.2	745.0	725.0	719.5
60°	2880.7	2111.1	1570.3	1208.3	986.7	846.2	772.4	724.0	708.5	703.1
62.5°	2816.9	2061.8	1509.2	1157.2	947.5	818.0	745.9	708.5	687.6	681.2
65°	2655.5	1932.3	1416.2	1087.9	890.9	775.1	704.0	667.5	651.1	646.5
67.5°	2512.3	1793.7	1323.2	1015.9	827.1	722.2	657.5	625.6	612.8	610.1
70°	2279.8	1643.2	1179.1	903.7	745.0	643.8	595.5	571.8	556.3	550.8
72.5°	2043.6	1442.6	1039.6	796.1	645.6	579.1	530.7	505.2	497.0	492.4
75°	1735.3	1212.8	876.3	674.8	554.4	484.2	450.5	431.3	421.3	420.4
77.5°	1419.8	971.2	705.8	534.4	438.6	390.3	366.6	348.3	346.5	350.2
80°	1087.9	733.2	524.3	400.3	324.6	294.5	281.8	269.9	268.1	265.4
82.5°	723.1	486.0	331.9	253.5	217.9	200.6	197.0	188.8	186.9	185.1
85°	352.9	233.4	160.5	125.8	115.8	107.6	106.7	110.3	109.4	106.7
87.5°	36.5	30.1	29.2	22.8	21.0	19.1	19.1	17.3	21.0	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)