

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: P543184

Luminaire Tested: **TT-D8-830-U-T4-PM**

Issue Date: 6/22/2021

Test Information

Test Method: LM-79-08
Report Number: P543184
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-D8-830-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: 13337 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

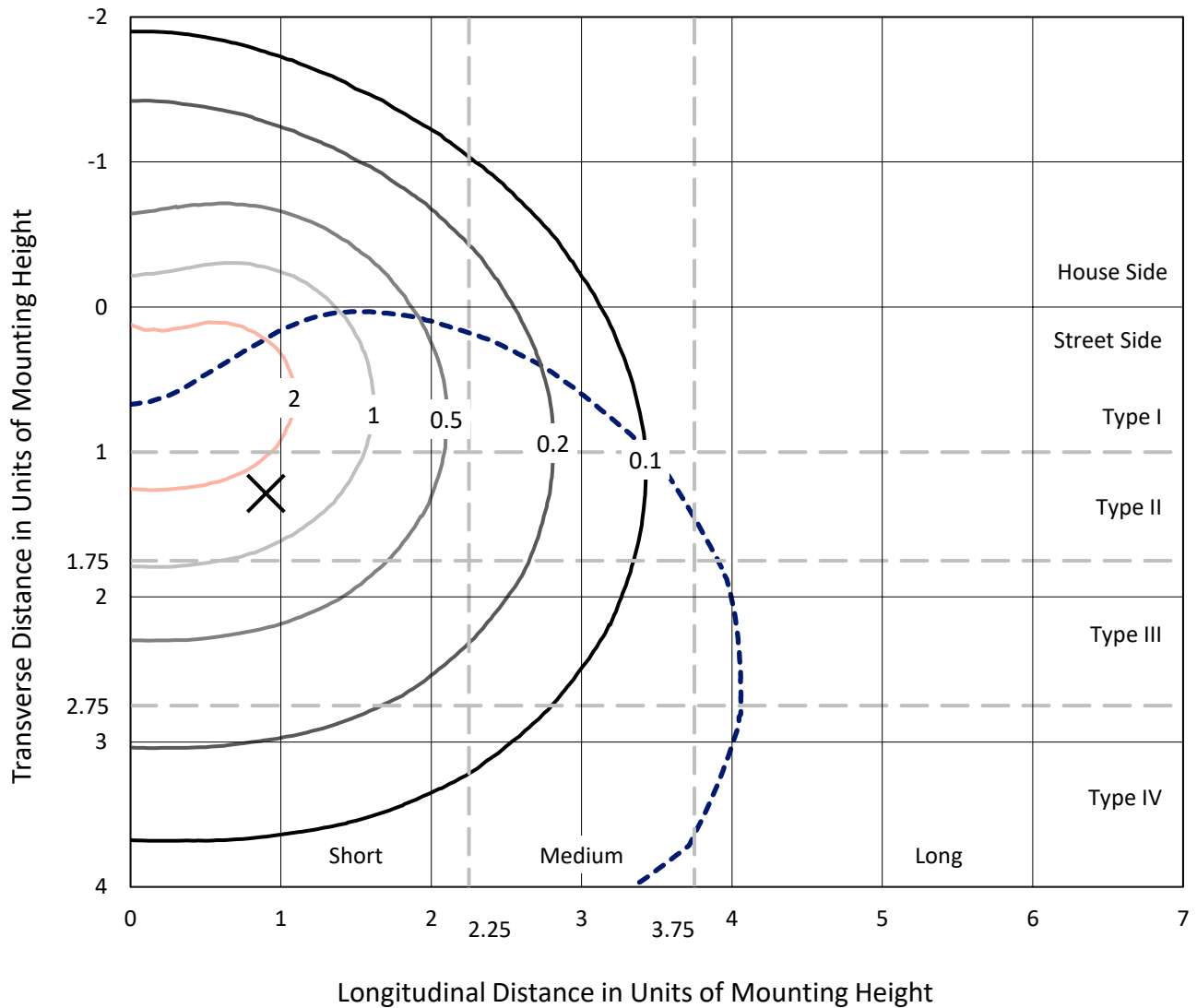
Input Watts (W): 152.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

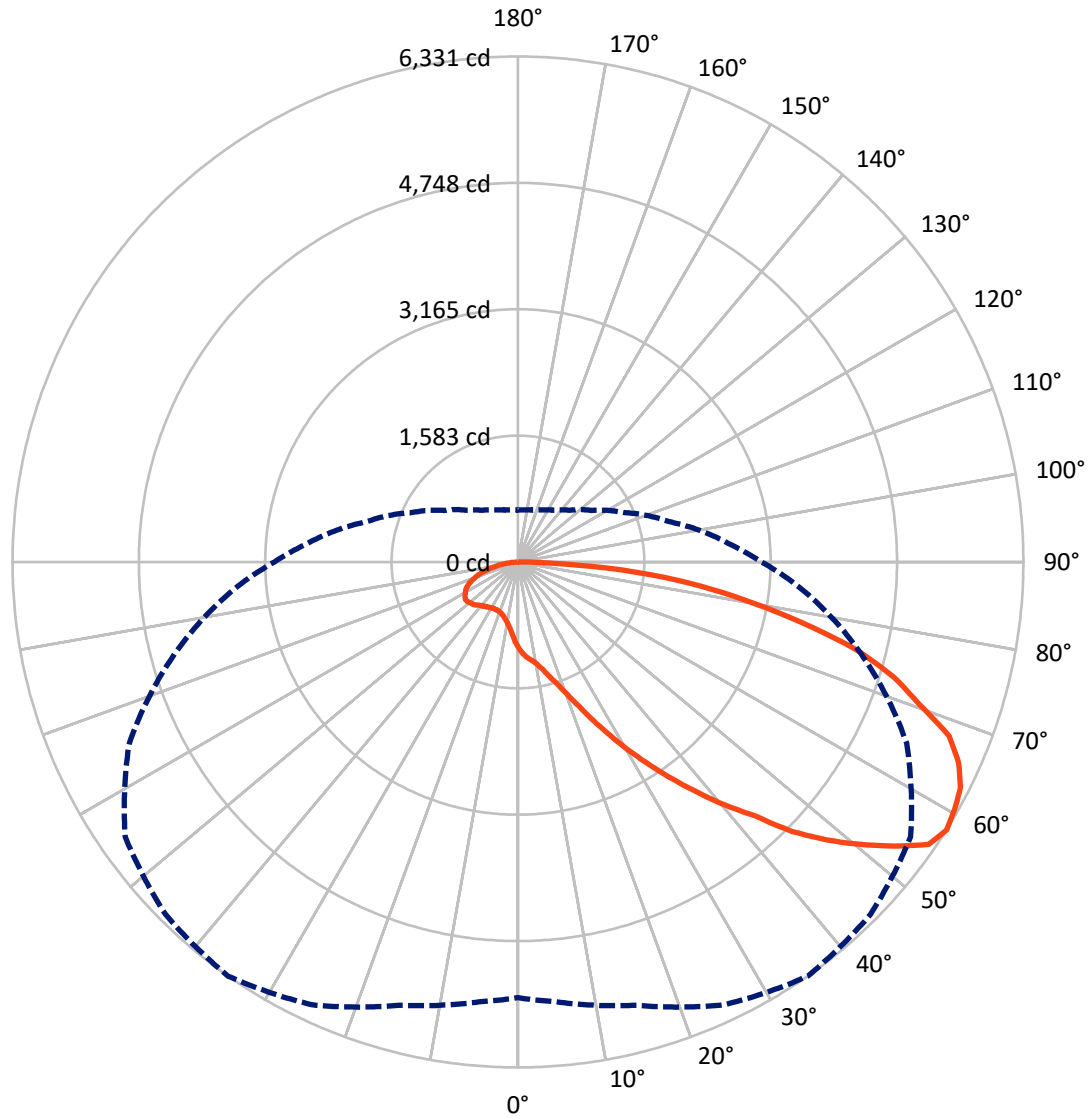
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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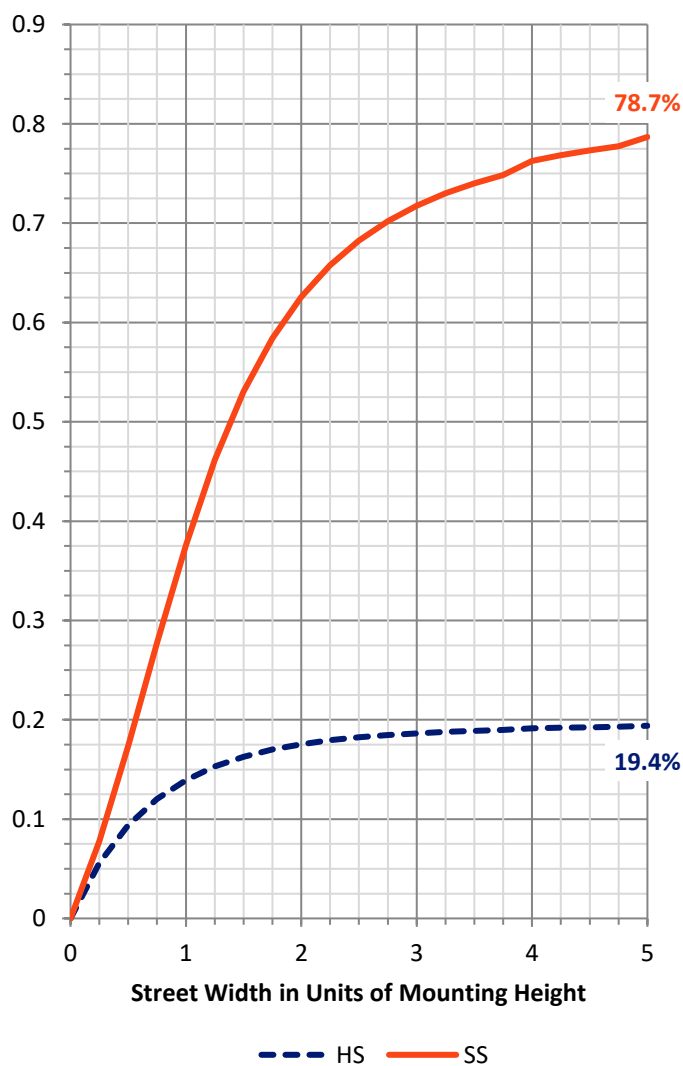
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2611.7	0.0	2611.7
	% Fixture	19.6	0.0	19.6
Street Side	Lumens	10725.3	0.0	10725.3
	% Fixture	80.4	0.0	80.4
Total	Lumens	13337.0	0.0	13337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	0.7
10°-20°	314.7	2.4
20°-30°	665.4	5.0
30°-40°	1246.7	9.3
40°-50°	2075.0	15.6
50°-60°	2928.5	22.0
60°-70°	3081.1	23.1
70°-80°	2257.1	16.9
80°-90°	668.8	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°	13337.0	100.0
0°-180°	13337.0	100.0

Coefficient of Utilization

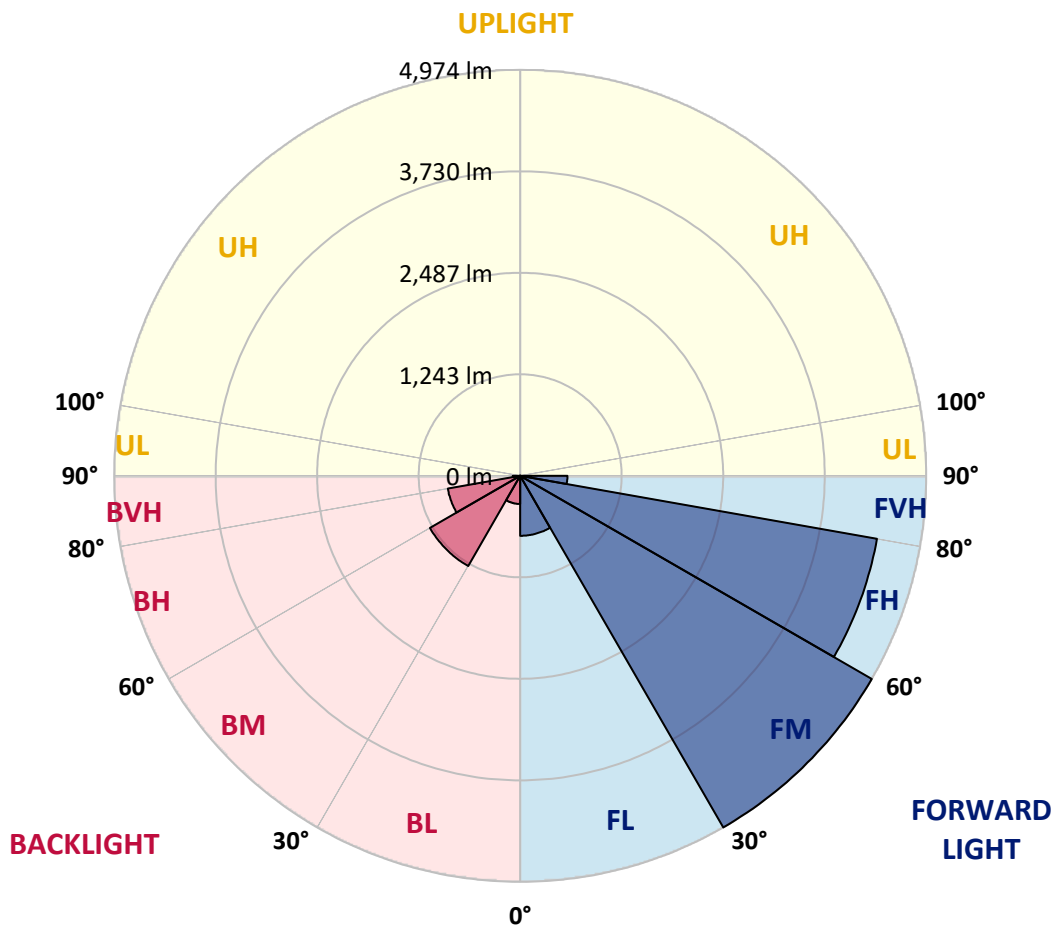


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.8	5.5			
FM (30°-60°)	4973.9	37.3			
FH (60°-80°)	4438.0	33.3			G2/5000
FVH (80°-90°)	578.6	4.3			G4/750
BL (0°-30°)	345.1	2.6	B1/500		
BM (30°-60°)	1276.2	9.6	B2/2500		
BH (60°-80°)	900.2	6.7	B2/1000		G2/1000
BVH (80°-90°)	90.2	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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1171.9	1166.1	1161.2	1153.0	1147.2	1145.5	1134.8	1121.7	1103.5	1087.9	1079.7
5°	1233.7	1232.8	1230.4	1220.5	1202.4	1176.8	1153.0	1125.8	1096.1	1066.5	1052.5
7.5°	1292.1	1286.4	1283.1	1269.1	1242.7	1214.7	1178.5	1138.1	1095.3	1053.3	1031.9
10°	1365.4	1357.2	1351.4	1324.3	1297.1	1257.5	1209.8	1157.9	1106.8	1054.1	1028.6
12.5°	1459.3	1452.7	1428.8	1415.7	1381.1	1335.8	1275.7	1213.1	1147.2	1079.7	1046.7
15°	1559.8	1561.4	1552.4	1518.6	1490.6	1436.3	1372.0	1293.8	1204.8	1123.3	1082.1
17.5°	1694.0	1691.5	1674.3	1652.0	1609.2	1554.0	1475.0	1391.8	1288.0	1181.0	1134.0
20°	1852.1	1843.9	1828.3	1797.8	1772.3	1707.2	1617.4	1513.7	1390.1	1263.3	1199.9
22.5°	2053.1	2035.0	2025.1	1997.9	1966.6	1905.7	1810.1	1672.6	1527.7	1370.4	1288.8
25°	2249.9	2259.8	2254.8	2239.2	2199.7	2124.7	2023.4	1871.9	1673.4	1489.8	1397.5
27.5°	2497.0	2501.1	2502.7	2496.1	2457.4	2389.1	2286.1	2086.0	1864.5	1636.4	1514.5
30°	2753.9	2744.9	2756.4	2759.7	2740.7	2661.7	2535.7	2316.6	2051.4	1778.8	1642.1
32.5°	3009.2	3019.1	3043.0	3028.2	3031.4	2941.7	2804.1	2546.4	2250.7	1929.6	1785.4
35°	3284.3	3297.4	3313.9	3341.9	3340.3	3268.6	3070.2	2811.6	2466.5	2103.3	1916.4
37.5°	3565.9	3562.6	3587.3	3651.6	3663.9	3595.6	3388.0	3089.9	2693.0	2278.7	2070.4
40°	3832.7	3863.2	3911.0	3954.6	4007.3	3910.2	3708.4	3370.7	2939.2	2460.7	2215.3
42.5°	4144.0	4156.4	4227.2	4325.2	4339.2	4264.3	4044.4	3694.4	3183.8	2633.7	2373.4
45°	4474.3	4490.8	4557.5	4699.1	4813.6	4765.0	4466.9	4051.0	3486.9	2869.2	2548.0
47.5°	4759.2	4807.8	4914.9	5078.8	5200.6	5175.1	4889.3	4401.0	3776.7	3066.9	2716.9
50°	5012.9	5071.4	5217.1	5453.5	5562.2	5528.4	5250.1	4746.9	3988.4	3238.2	2839.6
52.5°	5269.8	5351.4	5484.8	5743.4	5913.0	5926.2	5615.7	5011.2	4233.8	3417.7	2973.8
55°	5409.0	5468.3	5691.5	6005.2	6244.9	6251.5	5900.7	5259.1	4403.5	3496.7	3037.2
57.5°	5457.6	5529.2	5746.7	6118.1	6330.5	6242.4	6003.6	5371.1	4451.2	3525.6	3050.4
60°	5390.1	5461.7	5709.6	6105.7	6285.2	6328.1	5958.3	5370.3	4427.3	3488.5	3010.0
62.5°	5293.7	5385.1	5625.6	6011.8	6219.4	6243.2	5899.8	5309.4	4391.9	3425.1	2950.7
65°	5049.1	5104.3	5455.9	5744.2	6064.5	6035.7	5765.6	5096.9	4266.8	3261.2	2805.8
67.5°	4805.3	4863.0	5121.6	5516.9	5827.4	5796.1	5530.1	4891.0	4026.3	3108.9	2654.3
70°	4394.4	4431.5	4788.1	5095.2	5327.5	5442.8	5099.4	4547.6	3774.3	2853.6	2423.7
72.5°	3959.6	4018.0	4273.3	4658.8	4921.5	4884.4	4712.3	4125.1	3363.3	2557.1	2184.8
75°	3403.7	3459.7	3742.2	4114.4	4369.7	4340.0	4144.0	3622.7	2989.4	2212.8	1891.7
77.5°	2878.3	2861.0	3110.5	3393.0	3625.2	3693.6	3472.9	3063.6	2465.7	1818.4	1540.0
80°	2211.2	2277.1	2433.6	2696.3	2871.7	2910.4	2739.9	2424.5	1969.9	1423.1	1181.0
82.5°	1557.3	1591.9	1783.0	1948.5	2168.4	2154.4	2036.6	1760.7	1430.5	999.0	813.7
85°	849.9	857.3	1030.2	1146.4	1316.0	1336.6	1253.4	1064.8	818.6	568.2	419.2
87.5°	149.1	146.6	212.5	311.3	395.3	424.9	353.3	276.7	112.0	66.7	34.6
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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1070.6	1054.1	1038.5	1023.7	1009.7	998.1	993.2	989.1	988.2	980.8
5°	1035.2	1008.8	980.0	953.7	929.8	904.2	883.7	877.1	876.2	880.4
7.5°	1012.1	971.8	932.2	901.0	865.5	831.8	801.3	782.4	777.4	775.8
10°	1003.9	954.5	906.7	859.0	819.4	778.2	741.2	718.1	704.9	701.7
12.5°	1014.6	952.0	892.7	836.7	783.2	737.9	695.9	667.1	652.2	647.3
15°	1043.4	962.7	887.8	820.2	761.8	704.9	663.8	626.7	609.4	606.9
17.5°	1081.3	986.6	891.1	812.0	742.8	682.7	634.9	596.2	574.8	571.5
20°	1135.7	1017.1	906.7	812.8	734.6	667.1	613.5	572.4	549.3	546.8
22.5°	1212.2	1065.7	932.2	823.5	734.6	658.0	600.4	557.5	533.7	531.2
25°	1299.5	1121.7	966.8	838.4	737.1	656.4	592.9	547.7	523.8	521.3
27.5°	1400.0	1190.0	1003.9	857.3	746.1	658.0	590.5	545.2	522.1	518.8
30°	1512.8	1257.5	1044.2	877.9	757.7	661.3	591.3	544.4	522.1	518.8
32.5°	1625.7	1331.7	1089.5	905.1	770.8	670.4	596.2	550.1	527.1	524.6
35°	1744.3	1413.2	1139.8	933.1	789.8	682.7	604.5	556.7	533.7	531.2
37.5°	1867.0	1495.5	1191.7	967.7	809.5	695.1	616.0	568.2	546.0	543.5
40°	1994.6	1580.4	1246.8	1003.1	828.5	711.5	630.0	583.1	560.0	557.5
42.5°	2105.0	1657.0	1297.9	1033.5	853.2	727.2	648.1	598.7	577.3	574.8
45°	2260.6	1744.3	1350.6	1071.4	882.8	755.2	669.5	623.4	603.7	598.7
47.5°	2390.7	1833.2	1404.1	1107.7	907.5	774.1	690.1	643.2	622.6	619.3
50°	2497.0	1889.2	1446.1	1126.6	920.7	786.5	706.6	658.8	640.7	634.9
52.5°	2609.0	1952.6	1468.4	1148.8	942.1	803.8	718.1	676.9	657.2	651.4
55°	2645.2	1955.9	1484.8	1153.0	938.8	807.9	725.5	677.8	662.1	656.4
57.5°	2647.7	1955.1	1462.6	1125.0	915.8	789.8	718.1	672.8	654.7	649.8
60°	2601.6	1906.5	1418.1	1091.2	891.1	764.2	697.5	653.9	639.9	634.9
62.5°	2543.9	1862.0	1363.0	1045.1	855.7	738.7	673.7	639.9	620.9	615.2
65°	2398.1	1745.1	1279.0	982.5	804.6	700.0	635.8	602.8	588.0	583.9
67.5°	2268.8	1619.9	1195.0	917.4	746.9	652.2	593.8	564.9	553.4	550.9
70°	2058.8	1484.0	1064.8	816.1	672.8	581.4	537.8	516.4	502.4	497.4
72.5°	1845.6	1302.8	938.8	718.9	583.1	522.9	479.3	456.2	448.8	444.7
75°	1567.2	1095.3	791.4	609.4	500.7	437.3	406.8	389.5	380.5	379.7
77.5°	1282.2	877.1	637.4	482.6	396.1	352.5	331.1	314.6	312.9	316.2
80°	982.5	662.1	473.5	361.5	293.2	266.0	254.5	243.8	242.1	239.6
82.5°	653.1	438.9	299.8	228.9	196.8	181.2	177.9	170.5	168.8	167.2
85°	318.7	210.8	144.9	113.6	104.6	97.2	96.4	99.6	98.8	96.4
87.5°	32.9	27.2	26.4	20.6	18.9	17.3	17.3	15.6	18.9	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)