

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: P543204

Luminaire Tested: **TT-D9-740-U-T4-PM**

Issue Date: 6/22/2021

Test Information

Test Method: LM-79-08
Report Number: P543204
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-D9-740-U-T4-PM
Description: TOPTIER LED SITE LUMINAIRE
4000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17933 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

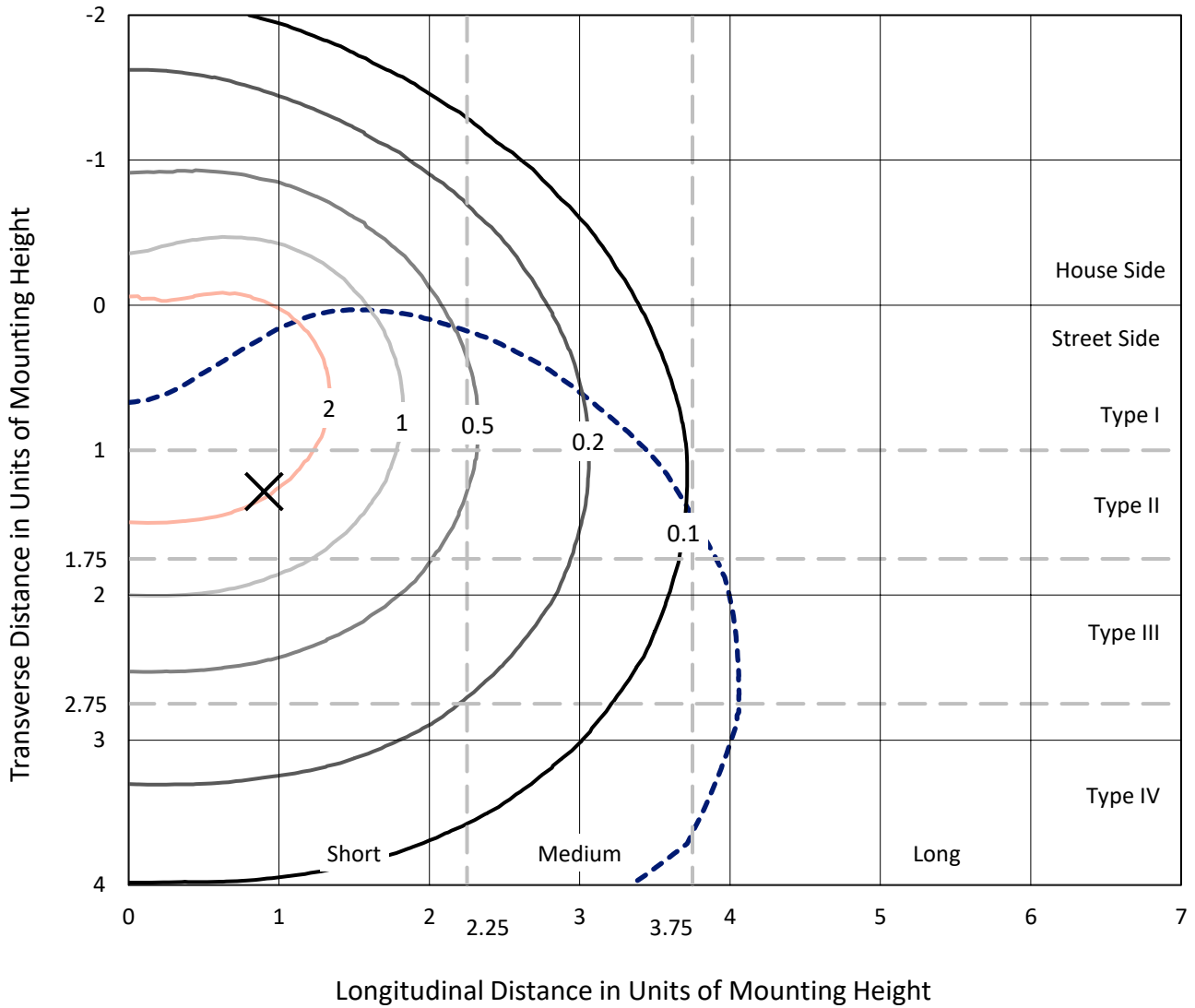
Input Watts (W): 178
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

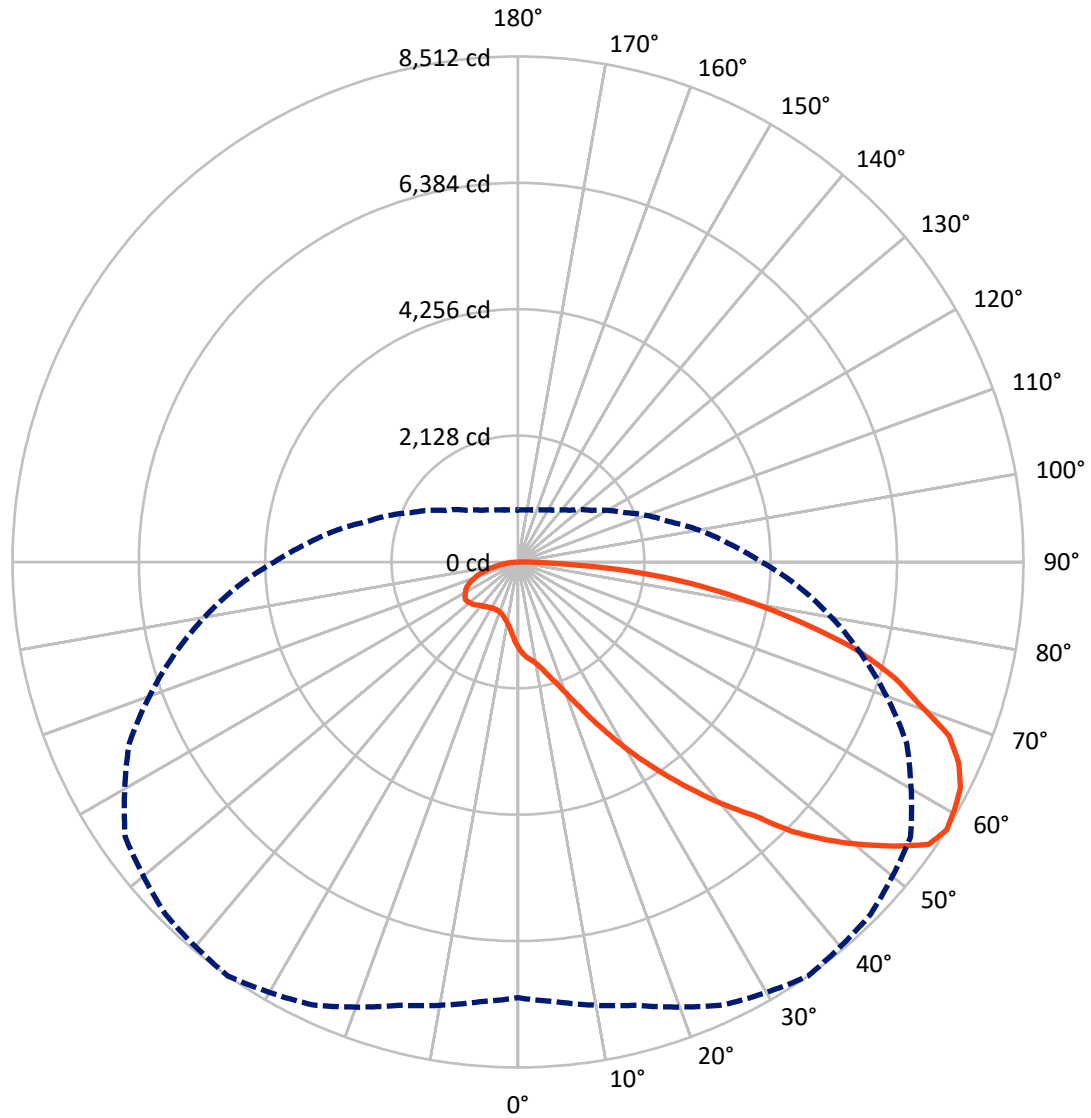
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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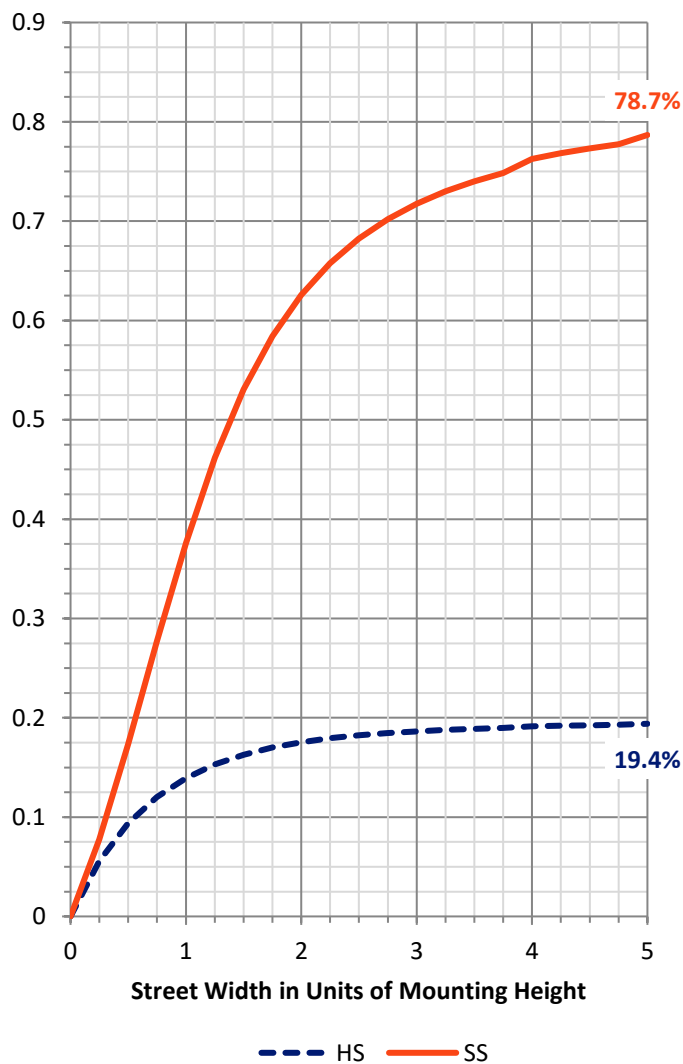
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3511.7	0.0	3511.7
	% Fixture	19.6	0.0	19.6
Street Side	Lumens	14421.3	0.0	14421.3
	% Fixture	80.4	0.0	80.4
Total	Lumens	17933.0	0.0	17933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	0.7
10°-20°	423.1	2.4
20°-30°	894.7	5.0
30°-40°	1676.3	9.3
40°-50°	2790.0	15.6
50°-60°	3937.7	22.0
60°-70°	4142.8	23.1
70°-80°	3034.9	16.9
80°-90°	899.3	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°	17933.0	100.0
0°-180°	17933.0	100.0

Coefficient of Utilization



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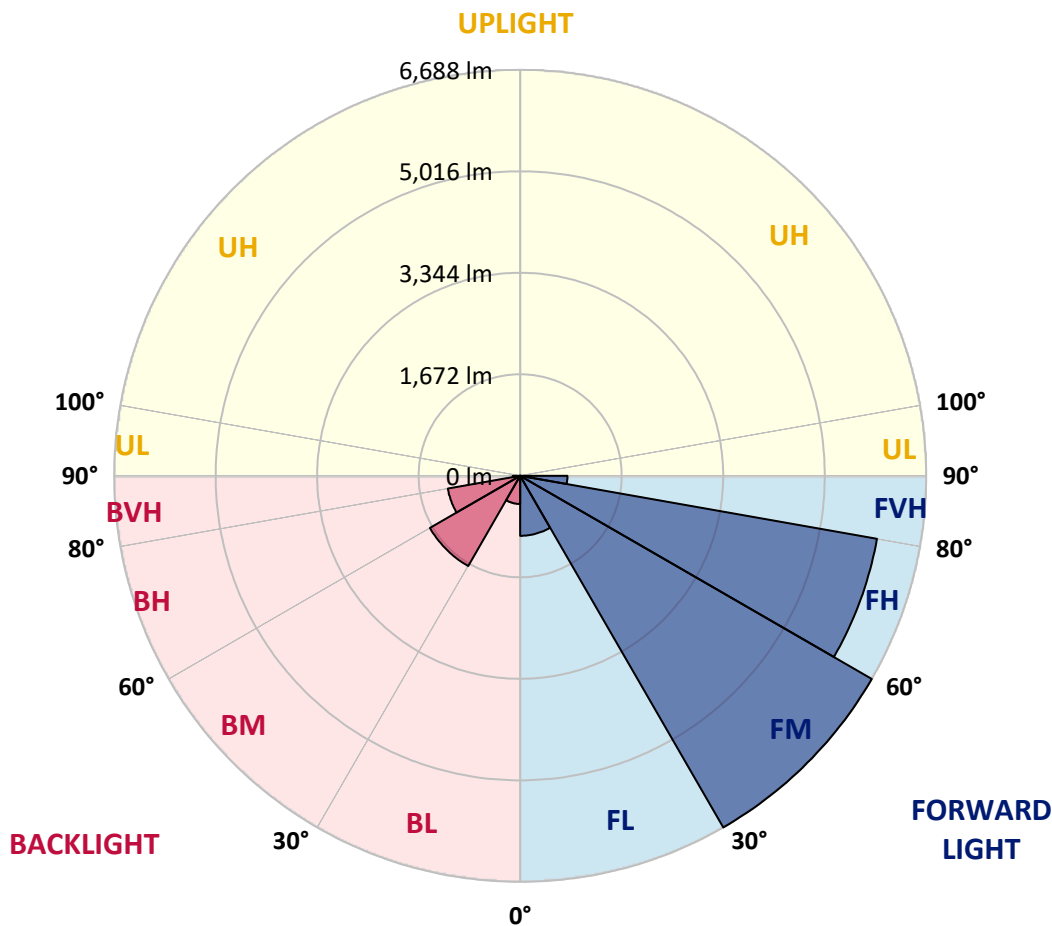
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.0	5.5			
FM (30°-60°)	6688.0	37.3			
FH (60°-80°)	5967.3	33.3			G3/7500
FVH (80°-90°)	778.0	4.3			G5
BL (0°-30°)	464.0	2.6	B1/500		
BM (30°-60°)	1716.0	9.6	B2/2500		
BH (60°-80°)	1210.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	121.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1575.7	1568.0	1561.3	1550.3	1542.5	1540.3	1525.9	1508.2	1483.8	1462.8	1451.7
5°	1658.8	1657.7	1654.4	1641.1	1616.7	1582.4	1550.3	1513.7	1473.9	1434.0	1415.2
7.5°	1737.4	1729.7	1725.2	1706.4	1671.0	1633.3	1584.6	1530.3	1472.8	1416.3	1387.5
10°	1836.0	1824.9	1817.1	1780.6	1744.1	1690.9	1626.7	1556.9	1488.3	1417.4	1383.1
12.5°	1962.2	1953.3	1921.2	1903.5	1857.0	1796.1	1715.3	1631.1	1542.5	1451.7	1407.4
15°	2097.3	2099.5	2087.3	2041.9	2004.3	1931.2	1844.8	1739.6	1620.0	1510.4	1455.0
17.5°	2277.8	2274.5	2251.2	2221.3	2163.7	2089.5	1983.2	1871.4	1731.9	1587.9	1524.8
20°	2490.4	2479.3	2458.3	2417.3	2383.0	2295.5	2174.8	2035.3	1869.2	1698.7	1613.4
22.5°	2760.6	2736.2	2722.9	2686.4	2644.3	2562.4	2433.9	2249.0	2054.1	1842.6	1733.0
25°	3025.2	3038.5	3031.9	3010.8	2957.7	2856.9	2720.7	2517.0	2250.1	2003.2	1879.1
27.5°	3357.4	3363.0	3365.2	3356.3	3304.3	3212.4	3074.0	2804.9	2507.0	2200.3	2036.4
30°	3702.9	3690.7	3706.2	3710.7	3685.2	3578.9	3409.5	3114.9	2758.4	2391.8	2208.0
32.5°	4046.2	4059.5	4091.6	4071.7	4076.1	3955.4	3770.5	3423.9	3026.3	2594.5	2400.7
35°	4416.1	4433.8	4455.9	4493.6	4491.3	4395.0	4128.1	3780.4	3316.5	2828.1	2576.8
37.5°	4794.8	4790.3	4823.5	4909.9	4926.5	4834.6	4555.6	4154.7	3621.0	3064.0	2783.8
40°	5153.5	5194.5	5258.7	5317.4	5388.3	5257.6	4986.3	4532.3	3952.1	3308.7	2978.7
42.5°	5572.1	5588.7	5683.9	5815.7	5834.5	5733.8	5438.1	4967.5	4281.0	3541.3	3191.3
45°	6016.1	6038.3	6128.0	6318.5	6472.4	6407.0	6006.2	5447.0	4688.5	3858.0	3426.1
47.5°	6399.3	6464.6	6608.6	6828.9	6992.8	6958.5	6574.2	5917.6	5078.2	4123.7	3653.1
50°	6740.3	6819.0	7015.0	7332.8	7478.9	7433.5	7059.3	6382.7	5362.8	4354.0	3818.1
52.5°	7085.8	7195.5	7374.8	7722.6	7950.7	7968.4	7550.9	6738.1	5692.8	4595.4	3998.6
55°	7273.0	7352.7	7652.8	8074.7	8396.9	8405.8	7934.1	7071.4	5920.9	4701.7	4083.8
57.5°	7338.3	7434.6	7727.0	8226.4	8512.1	8393.6	8072.5	7222.0	5985.1	4740.5	4101.6
60°	7247.5	7343.8	7677.2	8209.8	8451.2	8508.8	8011.6	7220.9	5953.0	4690.7	4047.3
62.5°	7117.9	7240.9	7564.2	8083.5	8362.6	8394.7	7932.9	7139.0	5905.4	4605.4	3967.6
65°	6789.1	6863.3	7336.1	7723.7	8154.4	8115.7	7752.4	6853.3	5737.1	4385.0	3772.7
67.5°	6461.3	6538.8	6886.5	7418.0	7835.5	7793.4	7435.8	6576.5	5413.8	4180.2	3568.9
70°	5908.7	5958.6	6438.0	6851.1	7163.3	7318.4	6856.6	6114.7	5074.9	3836.9	3258.9
72.5°	5324.1	5402.7	5746.0	6264.2	6617.4	6567.6	6336.2	5546.6	4522.4	3438.3	2937.8
75°	4576.6	4651.9	5031.7	5532.2	5875.5	5835.7	5572.1	4871.2	4019.6	2975.4	2543.5
77.5°	3870.1	3846.9	4182.4	4562.2	4874.5	4966.4	4669.6	4119.3	3315.4	2445.0	2070.7
80°	2973.2	3061.8	3272.2	3625.4	3861.3	3913.3	3684.1	3260.0	2648.7	1913.5	1587.9
82.5°	2094.0	2140.5	2397.4	2620.0	2915.6	2896.8	2738.4	2367.5	1923.4	1343.2	1094.0
85°	1142.8	1152.7	1385.3	1541.4	1769.5	1797.2	1685.4	1431.8	1100.7	764.1	563.6
87.5°	200.4	197.1	285.7	418.6	531.5	571.4	475.0	372.1	150.6	89.7	46.5
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°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
2.5°	1439.5	1417.4	1396.3	1376.4	1357.6	1342.1	1335.4	1329.9	1328.8	1318.8
5°	1391.9	1356.5	1317.7	1282.3	1250.2	1215.9	1188.2	1179.3	1178.2	1183.7
7.5°	1360.9	1306.7	1253.5	1211.4	1163.8	1118.4	1077.4	1052.0	1045.3	1043.1
10°	1349.8	1283.4	1219.2	1154.9	1101.8	1046.4	996.6	965.6	947.9	943.4
12.5°	1364.2	1280.1	1200.4	1125.1	1053.1	992.2	935.7	896.9	877.0	870.4
15°	1403.0	1294.5	1193.7	1102.9	1024.3	947.9	892.5	842.7	819.4	816.1
17.5°	1453.9	1326.6	1198.1	1091.8	998.8	918.0	853.8	801.7	772.9	768.5
20°	1527.0	1367.6	1219.2	1092.9	987.7	896.9	825.0	769.6	738.6	735.3
22.5°	1630.0	1432.9	1253.5	1107.3	987.7	884.8	807.2	749.7	717.6	714.2
25°	1747.4	1508.2	1300.0	1127.3	991.1	882.5	797.3	736.4	704.3	700.9
27.5°	1882.5	1600.1	1349.8	1152.7	1003.2	884.8	794.0	733.1	702.1	697.6
30°	2034.2	1690.9	1404.1	1180.4	1018.7	889.2	795.1	731.9	702.1	697.6
32.5°	2185.9	1790.6	1465.0	1217.0	1036.5	901.4	801.7	739.7	708.7	705.4
35°	2345.3	1900.2	1532.6	1254.6	1061.9	918.0	812.8	748.6	717.6	714.2
37.5°	2510.3	2010.9	1602.3	1301.1	1088.5	934.6	828.3	764.1	734.2	730.8
40°	2682.0	2125.0	1676.5	1348.7	1114.0	956.7	847.1	784.0	753.0	749.7
42.5°	2830.3	2228.0	1745.2	1389.7	1147.2	977.8	871.5	805.0	776.2	772.9
45°	3039.6	2345.3	1816.0	1440.6	1187.1	1015.4	900.3	838.3	811.7	805.0
47.5°	3214.6	2464.9	1888.0	1489.4	1220.3	1040.9	927.9	864.8	837.1	832.7
50°	3357.4	2540.2	1944.5	1514.8	1238.0	1057.5	950.1	885.9	861.5	853.8
52.5°	3508.0	2625.5	1974.4	1544.7	1266.8	1080.8	965.6	910.2	883.7	875.9
55°	3556.8	2629.9	1996.5	1550.3	1262.4	1086.3	975.6	911.3	890.3	882.5
57.5°	3560.1	2628.8	1966.6	1512.6	1231.4	1061.9	965.6	904.7	880.3	873.7
60°	3498.1	2563.5	1906.8	1467.2	1198.1	1027.6	937.9	879.2	860.4	853.8
62.5°	3420.6	2503.7	1832.6	1405.2	1150.5	993.3	905.8	860.4	834.9	827.2
65°	3224.6	2346.4	1719.7	1321.1	1081.9	941.2	854.9	810.6	790.6	785.1
67.5°	3050.7	2178.1	1606.7	1233.6	1004.4	877.0	798.4	759.6	744.1	740.8
70°	2768.3	1995.4	1431.8	1097.4	904.7	781.8	723.1	694.3	675.5	668.8
72.5°	2481.5	1751.8	1262.4	966.7	784.0	703.2	644.5	613.5	603.5	598.0
75°	2107.3	1472.8	1064.1	819.4	673.3	588.0	547.0	523.8	511.6	510.5
77.5°	1724.1	1179.3	857.1	648.9	532.6	473.9	445.1	423.0	420.8	425.2
80°	1321.1	890.3	636.7	486.1	394.2	357.7	342.2	327.8	325.6	322.2
82.5°	878.1	590.2	403.1	307.8	264.7	243.6	239.2	229.2	227.0	224.8
85°	428.5	283.5	194.9	152.8	140.6	130.7	129.6	134.0	132.9	129.6
87.5°	44.3	36.5	35.4	27.7	25.5	23.3	23.3	21.0	25.5	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)