

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: P543149

Luminaire Tested: **TT-D7-830-U-T4-PM**

Issue Date: 6/22/2021

Test Information

Test Method: LM-79-08
Report Number: P543149
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-D7-830-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: 11834 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

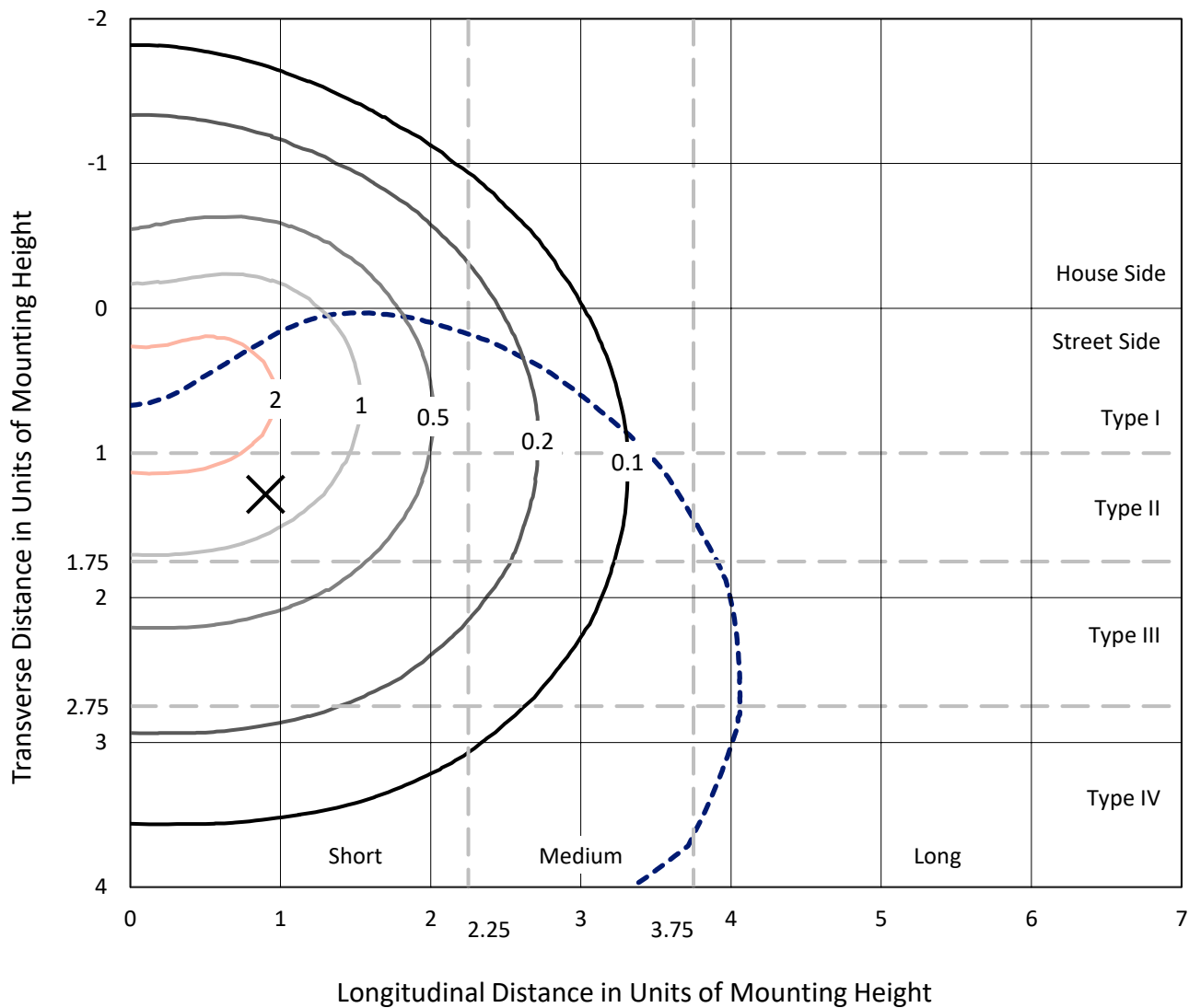
Input Watts (W): 127.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

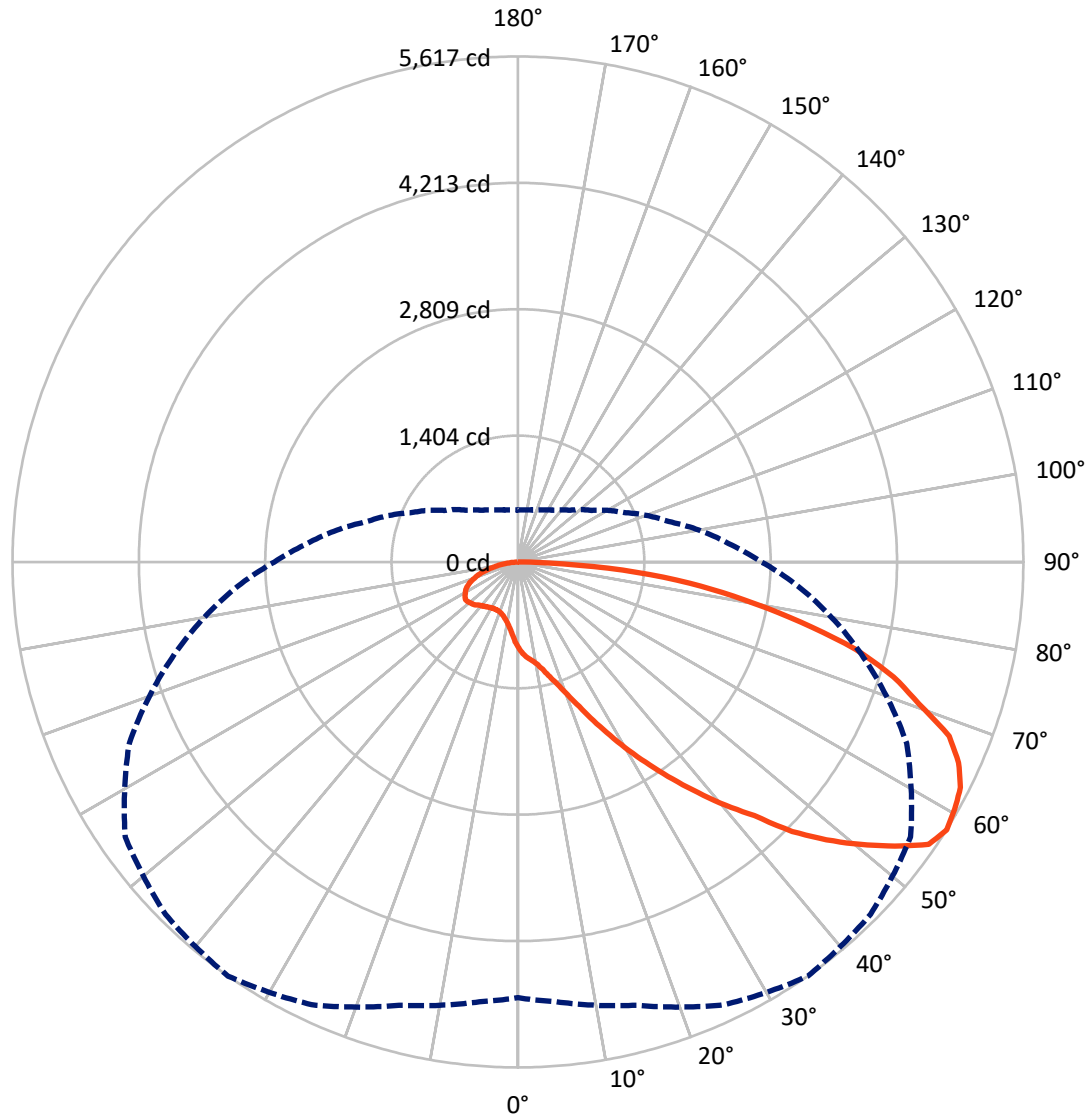
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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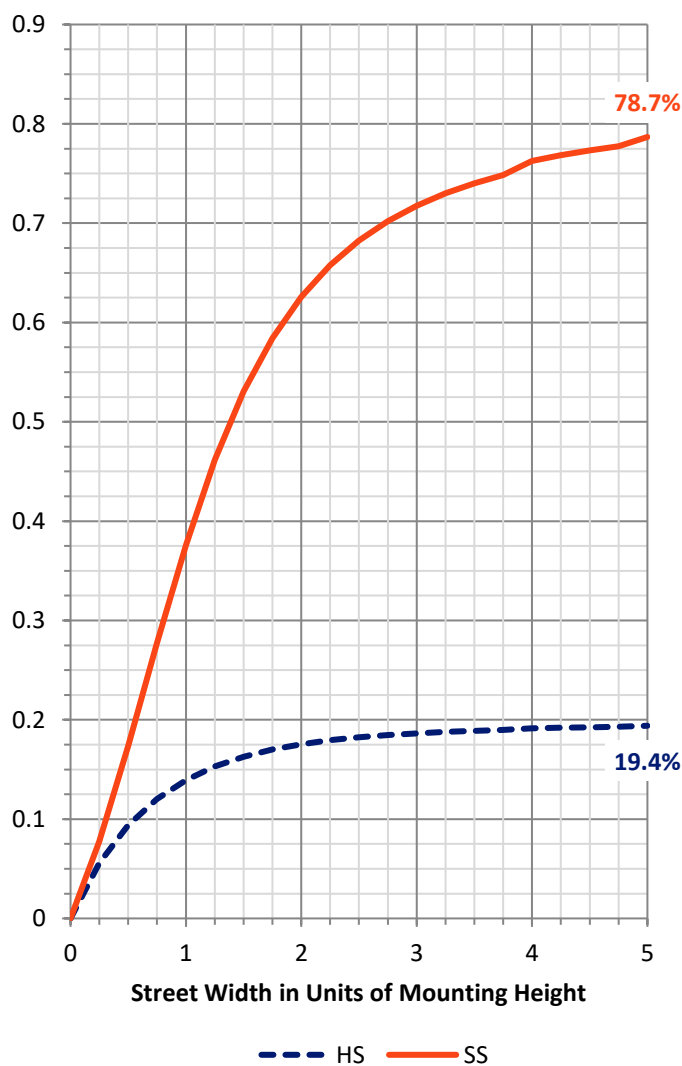
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2317.4	0.0	2317.4
	% Fixture	19.6	0.0	19.6
Street Side	Lumens	9516.6	0.0	9516.6
	% Fixture	80.4	0.0	80.4
Total	Lumens	11834.0	0.0	11834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	0.7
10°-20°	279.2	2.4
20°-30°	590.4	5.0
30°-40°	1106.2	9.3
40°-50°	1841.1	15.6
50°-60°	2598.5	22.0
60°-70°	2733.8	23.1
70°-80°	2002.7	16.9
80°-90°	593.4	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°	11834.0	100.0
0°-180°	11834.0	100.0

Coefficient of Utilization

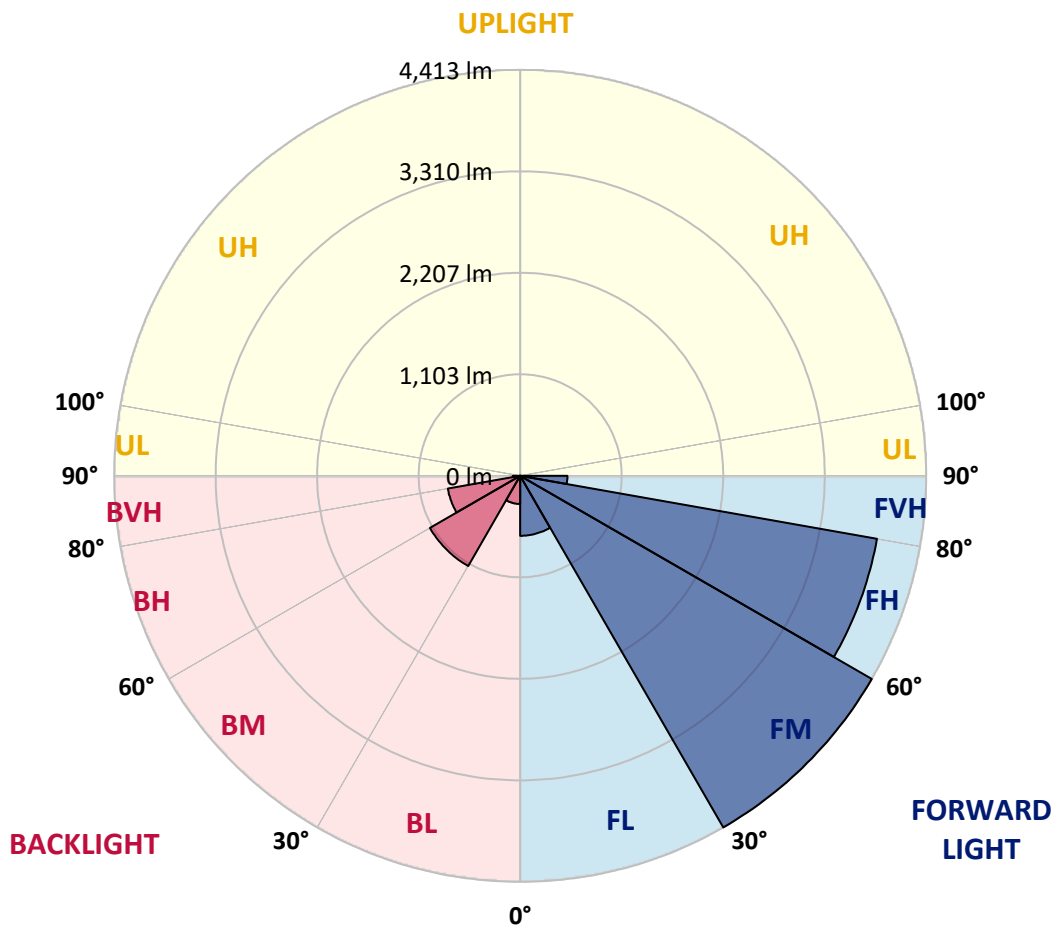


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.0	5.5			
FM (30°-60°)	4413.4	37.3			
FH (60°-80°)	3937.8	33.3			G2/5000
FVH (80°-90°)	513.4	4.3			G4/750
BL (0°-30°)	306.2	2.6	B1/500		
BM (30°-60°)	1132.4	9.6	B2/2500		
BH (60°-80°)	798.8	6.7	B2/1000		G2/1000
BVH (80°-90°)	80.0	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°	955.1	955.1	955.1	955.1	955.1	955.1	955.1	955.1	955.1	955.1	955.1
2.5°	1039.8	1034.7	1030.3	1023.0	1017.9	1016.4	1006.9	995.3	979.2	965.3	958.0
5°	1094.6	1093.9	1091.7	1082.9	1066.9	1044.2	1023.0	998.9	972.6	946.3	933.9
7.5°	1146.5	1141.4	1138.5	1126.1	1102.7	1077.8	1045.7	1009.9	971.9	934.6	915.6
10°	1211.6	1204.2	1199.1	1175.0	1150.9	1115.8	1073.4	1027.4	982.1	935.3	912.7
12.5°	1294.9	1289.0	1267.8	1256.1	1225.4	1185.2	1131.9	1076.4	1017.9	958.0	928.8
15°	1384.0	1385.5	1377.4	1347.5	1322.6	1274.4	1217.4	1148.0	1069.1	996.7	960.2
17.5°	1503.1	1500.9	1485.6	1465.8	1427.8	1378.9	1308.7	1234.9	1142.9	1047.9	1006.2
20°	1643.4	1636.1	1622.2	1595.2	1572.5	1514.8	1435.2	1343.1	1233.5	1120.9	1064.7
22.5°	1821.7	1805.6	1796.9	1772.8	1745.0	1690.9	1606.1	1484.1	1355.5	1215.9	1143.6
25°	1996.4	2005.1	2000.7	1986.9	1951.8	1885.3	1795.4	1661.0	1484.8	1321.9	1240.1
27.5°	2215.6	2219.2	2220.7	2214.8	2180.5	2119.9	2028.5	1850.9	1654.4	1452.0	1343.8
30°	2443.6	2435.5	2445.8	2448.7	2431.9	2361.7	2249.9	2055.5	1820.3	1578.4	1457.1
32.5°	2670.1	2678.9	2700.1	2686.9	2689.8	2610.2	2488.1	2259.4	1997.1	1712.1	1584.2
35°	2914.2	2925.8	2940.5	2965.3	2963.8	2900.3	2724.2	2494.7	2188.5	1866.3	1700.4
37.5°	3164.1	3161.1	3183.1	3240.1	3251.0	3190.4	3006.2	2741.7	2389.5	2021.9	1837.1
40°	3400.8	3427.9	3470.2	3509.0	3555.7	3469.5	3290.5	2990.9	2608.0	2183.4	1965.7
42.5°	3677.0	3688.0	3750.8	3837.8	3850.2	3783.7	3588.6	3278.1	2825.0	2336.9	2106.0
45°	3970.1	3984.7	4043.9	4169.6	4271.1	4228.0	3963.5	3594.5	3093.9	2545.9	2260.9
47.5°	4222.9	4266.0	4361.0	4506.4	4614.6	4591.9	4338.3	3905.0	3351.1	2721.2	2410.7
50°	4448.0	4499.8	4629.2	4838.9	4935.4	4905.4	4658.4	4211.9	3538.9	2873.2	2519.6
52.5°	4675.9	4748.3	4866.7	5096.1	5246.6	5258.3	4982.9	4446.5	3756.7	3032.5	2638.7
55°	4799.4	4852.1	5050.1	5328.5	5541.1	5547.0	5235.7	4666.4	3907.2	3102.7	2694.9
57.5°	4842.6	4906.1	5099.0	5428.6	5617.1	5538.9	5327.0	4765.8	3949.6	3128.3	2706.6
60°	4782.6	4846.2	5066.2	5417.6	5576.9	5614.9	5286.8	4765.1	3928.4	3095.4	2670.8
62.5°	4697.1	4778.2	4991.6	5334.3	5518.5	5539.7	5235.0	4711.0	3897.0	3039.1	2618.2
65°	4480.1	4529.1	4841.1	5096.8	5381.1	5355.5	5115.8	4522.5	3785.9	2893.7	2489.6
67.5°	4263.8	4315.0	4544.4	4895.2	5170.7	5142.9	4906.9	4339.8	3572.5	2758.5	2355.1
70°	3899.2	3932.1	4248.5	4521.0	4727.1	4829.4	4524.7	4035.1	3348.9	2532.0	2150.5
72.5°	3513.4	3565.2	3791.8	4133.7	4366.8	4334.0	4181.2	3660.2	2984.3	2268.9	1938.6
75°	3020.1	3069.8	3320.4	3650.7	3877.3	3851.0	3677.0	3214.5	2652.6	1963.5	1678.5
77.5°	2553.9	2538.6	2760.0	3010.6	3216.7	3277.3	3081.5	2718.3	2187.8	1613.5	1366.5
80°	1962.0	2020.5	2159.3	2392.4	2548.1	2582.4	2431.1	2151.3	1747.9	1262.7	1047.9
82.5°	1381.8	1412.5	1582.0	1728.9	1924.0	1911.6	1807.1	1562.3	1269.3	886.4	722.0
85°	754.1	760.7	914.1	1017.2	1167.7	1186.0	1112.2	944.8	726.3	504.2	371.9
87.5°	132.3	130.1	188.5	276.2	350.8	377.1	313.5	245.5	99.4	59.2	30.7
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°	955.1	955.1	955.1	955.1	955.1	955.1	955.1	955.1	955.1	955.1
2.5°	950.0	935.3	921.5	908.3	895.9	885.6	881.3	877.6	876.9	870.3
5°	918.5	895.1	869.6	846.2	825.0	802.3	784.1	778.2	777.5	781.2
7.5°	898.1	862.3	827.2	799.4	768.0	738.0	711.0	694.2	689.8	688.3
10°	890.8	846.9	804.5	762.2	727.1	690.5	657.7	637.2	625.5	622.6
12.5°	900.3	844.7	792.1	742.4	694.9	654.7	617.5	591.9	578.7	574.4
15°	925.8	854.2	787.7	727.8	675.9	625.5	589.0	556.1	540.7	538.5
17.5°	959.4	875.4	790.7	720.5	659.1	605.8	563.4	529.0	510.1	507.1
20°	1007.7	902.5	804.5	721.2	651.8	591.9	544.4	507.9	487.4	485.2
22.5°	1075.6	945.6	827.2	730.7	651.8	583.9	532.7	494.7	473.5	471.3
25°	1153.1	995.3	857.9	743.9	654.0	582.4	526.1	485.9	464.7	462.6
27.5°	1242.2	1055.9	890.8	760.7	662.0	583.9	523.9	483.7	463.3	460.4
30°	1342.4	1115.8	926.6	779.0	672.3	586.8	524.7	483.0	463.3	460.4
32.5°	1442.5	1181.6	966.8	803.1	684.0	594.8	529.0	488.1	467.7	465.5
35°	1547.7	1253.9	1011.3	827.9	700.8	605.8	536.4	494.0	473.5	471.3
37.5°	1656.6	1327.0	1057.4	858.6	718.3	616.7	546.6	504.2	484.5	482.3
40°	1769.8	1402.3	1106.3	890.0	735.1	631.4	559.0	517.4	496.9	494.7
42.5°	1867.7	1470.2	1151.6	917.1	757.0	645.2	575.1	531.2	512.2	510.1
45°	2005.9	1547.7	1198.4	950.7	783.3	670.1	594.1	553.2	535.6	531.2
47.5°	2121.3	1626.6	1245.9	982.8	805.3	686.9	612.4	570.7	552.4	549.5
50°	2215.6	1676.3	1283.2	999.6	817.0	697.8	627.0	584.6	568.5	563.4
52.5°	2315.0	1732.6	1302.9	1019.4	836.0	713.2	637.2	600.7	583.1	578.0
55°	2347.1	1735.5	1317.5	1023.0	833.0	716.8	643.8	601.4	587.5	582.4
57.5°	2349.3	1734.8	1297.8	998.2	812.6	700.8	637.2	597.0	580.9	576.5
60°	2308.4	1691.6	1258.3	968.2	790.7	678.1	618.9	580.2	567.8	563.4
62.5°	2257.2	1652.2	1209.4	927.3	759.2	655.5	597.7	567.8	551.0	545.9
65°	2127.9	1548.4	1134.8	871.8	713.9	621.1	564.1	534.9	521.7	518.1
67.5°	2013.2	1437.3	1060.3	814.0	662.8	578.7	526.9	501.3	491.1	488.9
70°	1826.8	1316.8	944.8	724.2	597.0	515.9	477.2	458.2	445.7	441.4
72.5°	1637.6	1156.0	833.0	637.9	517.4	464.0	425.3	404.8	398.2	394.6
75°	1390.6	971.9	702.2	540.7	444.3	388.0	361.0	345.6	337.6	336.9
77.5°	1137.7	778.2	565.6	428.2	351.5	312.8	293.8	279.1	277.7	280.6
80°	871.8	587.5	420.2	320.8	260.1	236.0	225.8	216.3	214.8	212.6
82.5°	579.5	389.5	266.0	203.1	174.6	160.8	157.8	151.3	149.8	148.3
85°	282.8	187.1	128.6	100.8	92.8	86.2	85.5	88.4	87.7	85.5
87.5°	29.2	24.1	23.4	18.3	16.8	15.3	15.3	13.9	16.8	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)