

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: P595407

Luminaire Tested: **IST-PA1F-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-827-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8335 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

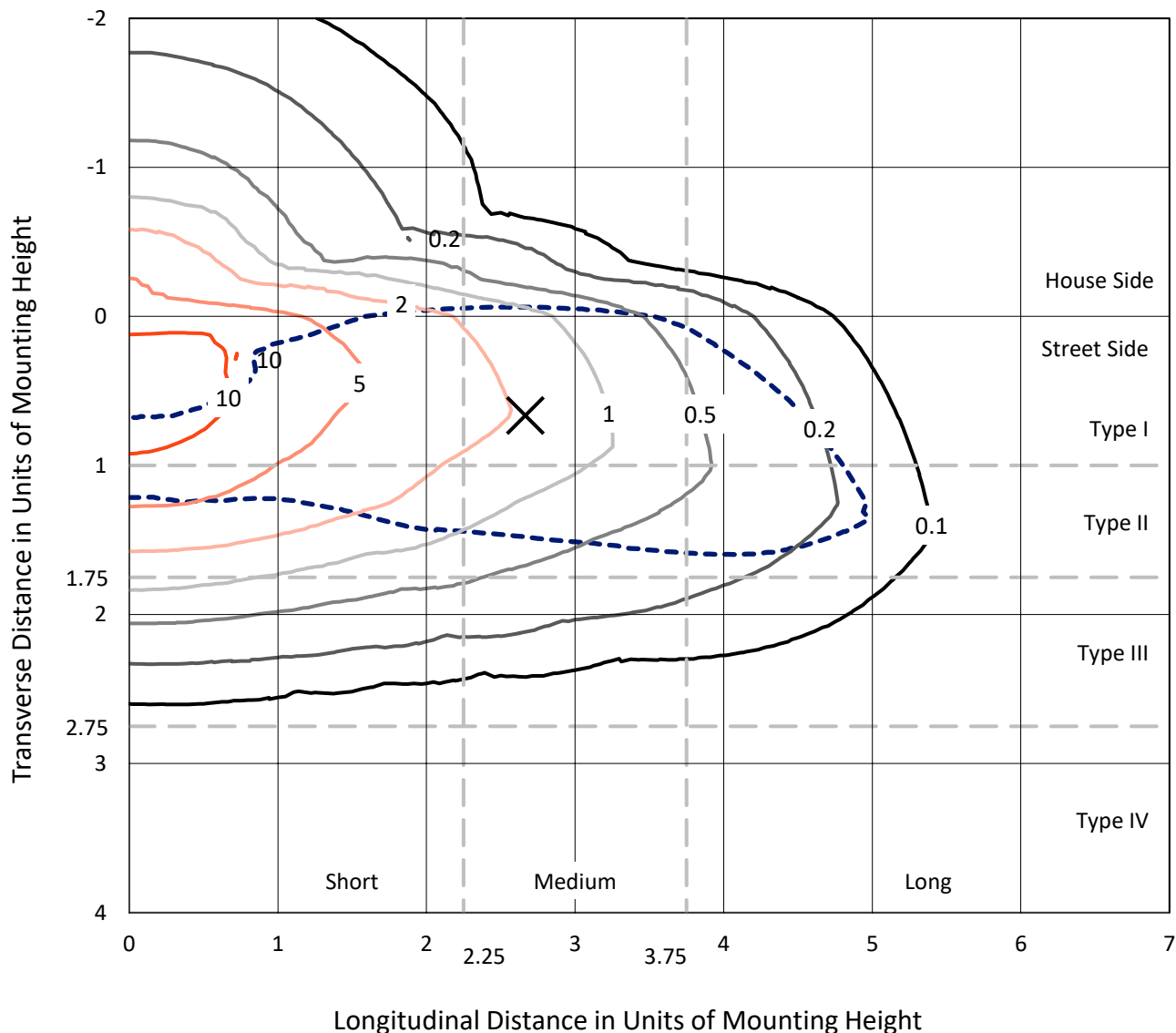
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

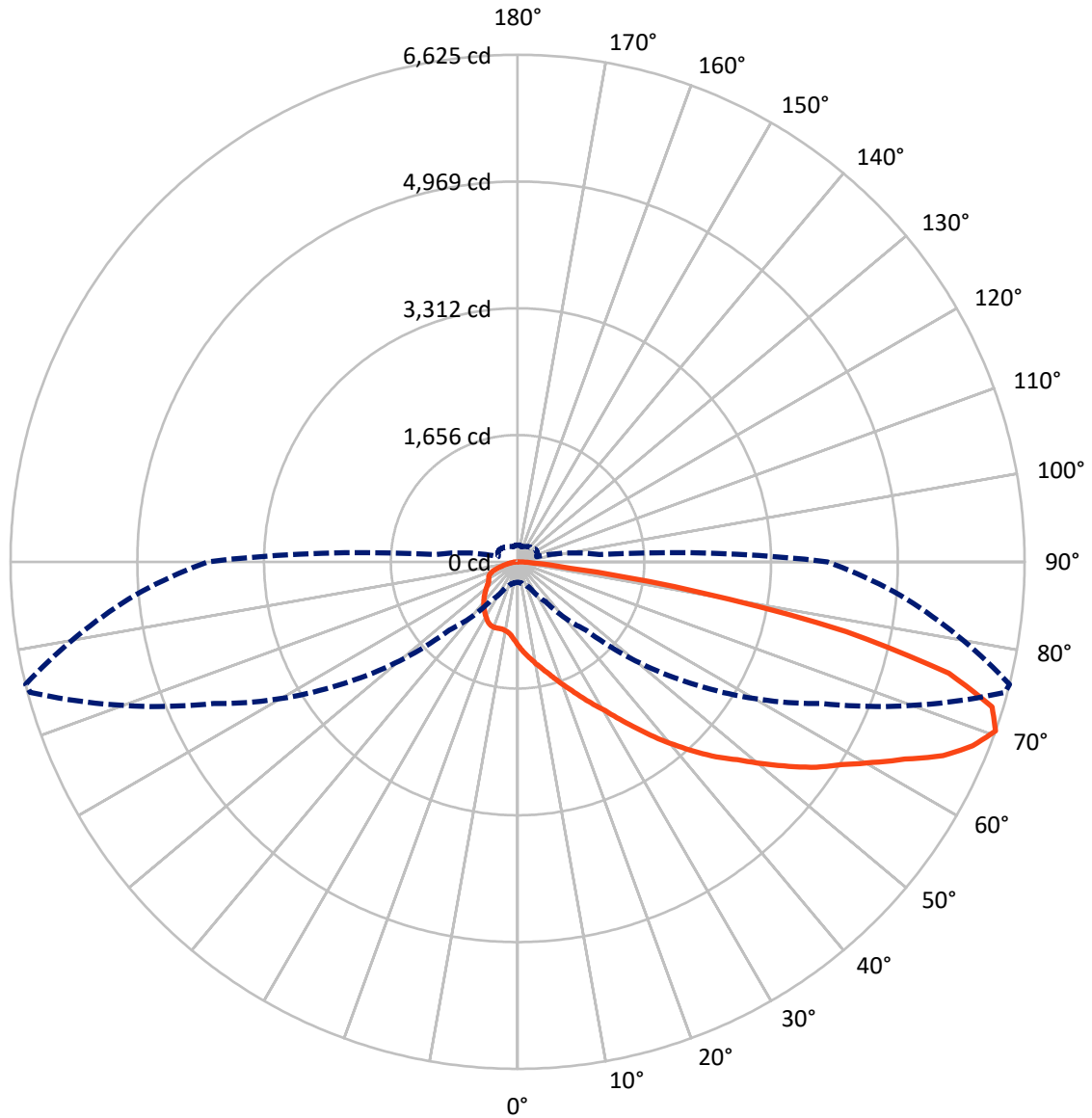
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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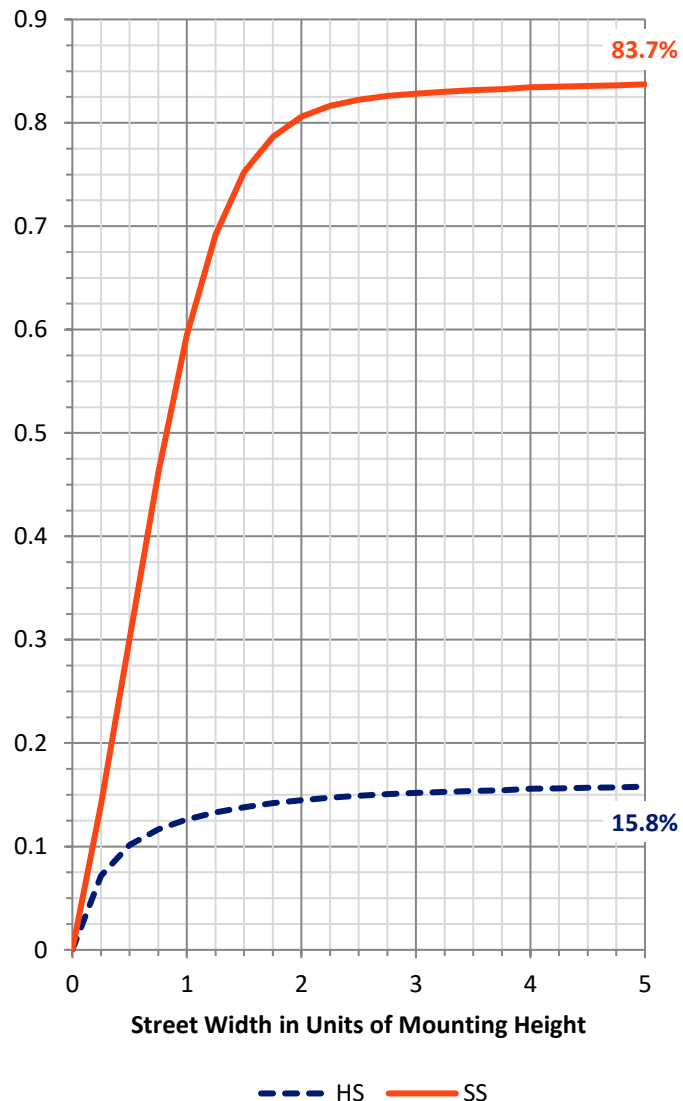
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1336.9	0.0	1336.9
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	6998.1	0.0	6998.1
	% Fixture	84.0	0.0	84.0
Total	Lumens	8335.0	0.0	8335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.3
10°-20°	351.7	4.2
20°-30°	648.1	7.8
30°-40°	1085.8	13.0
40°-50°	1542.9	18.5
50°-60°	1781.4	21.4
60°-70°	1637.6	19.6
70°-80°	1032.5	12.4
80°-90°	148.5	1.8
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°	8335.0	100.0
0°-180°	8335.0	100.0

Coefficient of Utilization

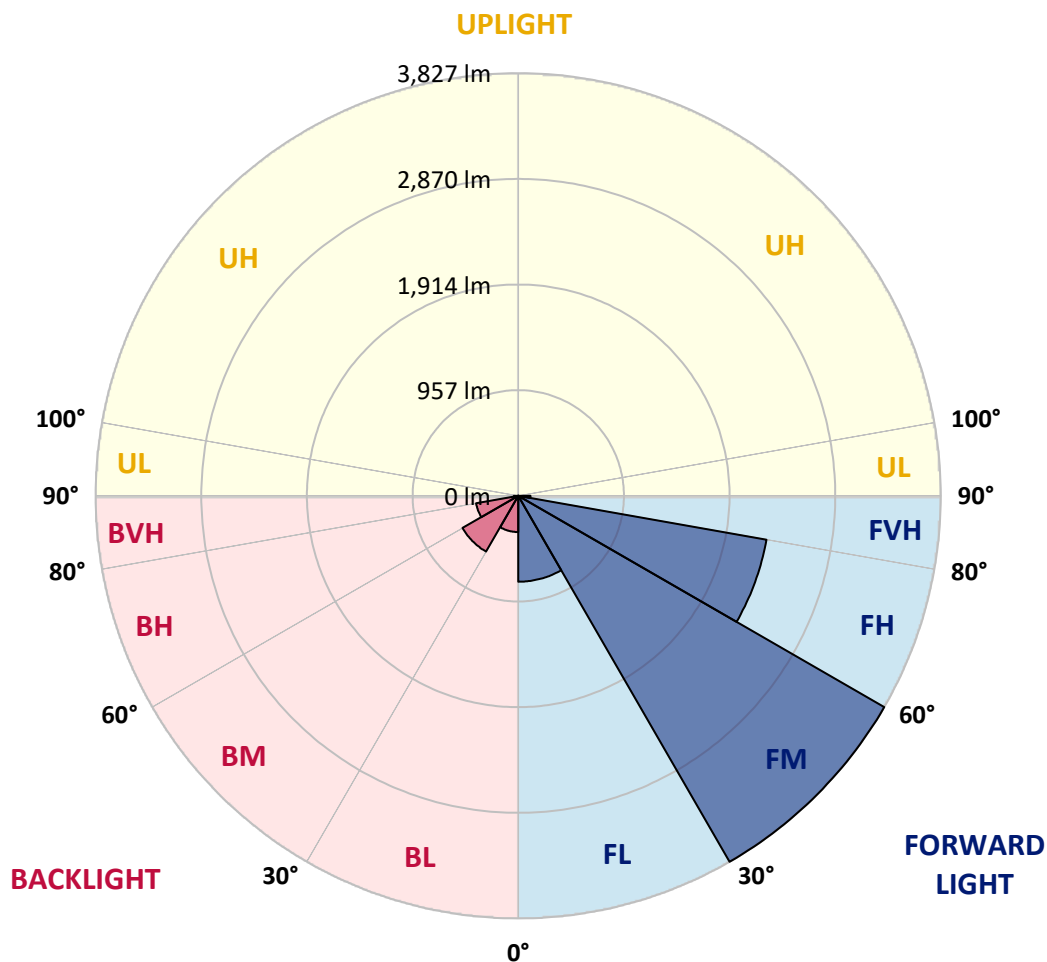


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.2	9.3			
FM (30°-60°)	3827.2	45.9			
FH (60°-80°)	2282.6	27.4			G2/5000
FVH (80°-90°)	110.1	1.3			G2/225
BL (0°-30°)	328.1	3.9	B1/500		
BM (30°-60°)	582.8	7.0	B1/1000		
BH (60°-80°)	387.5	4.6	B1/500		G1/500
BVH (80°-90°)	38.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4
2.5°	1316.1	1314.1	1308.1	1298.1	1290.0	1266.0	1233.9	1205.8	1163.6	1159.6	1117.5
5°	1434.5	1426.5	1426.5	1416.4	1406.4	1380.3	1340.2	1290.0	1229.9	1225.8	1145.6
7.5°	1490.7	1492.7	1488.7	1480.6	1482.6	1460.6	1424.5	1374.3	1292.1	1288.0	1183.7
10°	1570.9	1568.9	1560.9	1554.9	1552.9	1532.8	1500.7	1454.6	1368.3	1360.3	1227.8
12.5°	1649.2	1643.2	1645.2	1643.2	1639.1	1619.1	1589.0	1542.8	1436.5	1432.5	1282.0
15°	1693.3	1691.3	1705.3	1709.4	1725.4	1707.4	1681.3	1629.1	1532.8	1516.8	1346.2
17.5°	1721.4	1719.4	1733.4	1765.5	1795.6	1795.6	1787.6	1731.4	1625.1	1613.1	1418.4
20°	1769.5	1777.6	1801.6	1827.7	1871.9	1879.9	1877.9	1853.8	1731.4	1719.4	1498.7
22.5°	1865.8	1861.8	1881.9	1922.0	1962.2	1974.2	1976.2	1976.2	1853.8	1831.7	1581.0
25°	2072.5	2062.5	2046.4	2042.4	2090.6	2088.5	2082.5	2096.6	1982.2	1966.2	1675.3
27.5°	2465.7	2443.7	2381.5	2257.1	2229.0	2239.0	2208.9	2210.9	2128.7	2108.6	1755.5
30°	2838.9	2828.9	2770.7	2620.2	2461.7	2405.5	2353.4	2331.3	2291.2	2257.1	1841.8
32.5°	3176.0	3178.0	3107.7	2943.2	2780.7	2604.2	2513.9	2467.7	2483.8	2453.7	1960.1
35°	3404.7	3386.6	3342.5	3232.1	3055.6	2887.1	2714.5	2612.2	2698.5	2664.4	2078.5
37.5°	3539.1	3525.1	3488.9	3410.7	3322.4	3159.9	2941.2	2784.7	2953.3	2903.1	2229.0
40°	3607.3	3587.2	3551.1	3519.0	3476.9	3388.6	3196.0	2981.3	3186.0	3141.8	2377.5
42.5°	3615.3	3601.3	3581.2	3565.2	3579.2	3567.2	3444.8	3210.1	3430.8	3382.6	2548.0
45°	3609.3	3619.3	3595.3	3567.2	3595.3	3697.6	3697.6	3438.8	3673.5	3637.4	2710.5
47.5°	3613.3	3603.3	3595.3	3587.2	3591.3	3731.7	3872.1	3653.5	3906.2	3864.1	2901.1
50°	3446.8	3460.8	3529.1	3559.2	3577.2	3739.7	4012.6	3886.2	4195.2	4143.0	3113.8
52.5°	2917.1	2925.2	3236.1	3460.8	3533.1	3707.6	4110.9	4145.0	4480.0	4439.9	3342.5
55°	2247.0	2289.2	2584.1	3133.8	3432.8	3653.5	4141.0	4313.5	4771.0	4738.9	3573.2
57.5°	1849.8	1855.8	2026.4	2517.9	3115.8	3603.3	4171.1	4468.0	5031.8	4995.7	3814.0
60°	1534.8	1520.8	1625.1	1942.1	2588.1	3402.7	4177.1	4590.4	5334.7	5322.7	4062.7
62.5°	1127.5	1143.6	1243.9	1512.7	2024.3	2995.4	4147.0	4694.7	5695.9	5679.8	4339.6
65°	692.2	712.2	834.6	1081.4	1532.8	2377.5	3950.4	4748.9	6075.0	6111.2	4638.5
67.5°	367.2	381.2	453.4	654.1	1051.3	1811.7	3476.9	4680.7	6396.1	6412.1	4925.4
70°	268.8	270.8	294.9	369.2	634.0	1259.9	2768.7	4383.7	6592.7	6624.8	5019.7
72.5°	234.7	236.7	246.8	264.8	345.1	768.4	1984.2	3866.1	6510.4	6482.3	4861.2
75°	212.7	212.7	220.7	226.7	252.8	425.3	1215.8	3163.9	5882.4	5820.2	4145.0
77.5°	182.6	182.6	190.6	198.6	218.7	274.9	636.0	2345.4	4498.1	4391.8	2834.9
80°	146.5	146.5	156.5	166.5	192.6	206.6	311.0	1568.9	2572.1	2415.6	1290.0
82.5°	100.3	108.3	126.4	138.4	160.5	146.5	182.6	678.1	810.5	702.2	290.9
85°	60.2	64.2	90.3	104.3	120.4	78.2	112.4	260.8	242.8	212.7	66.2
87.5°	6.0	10.0	36.1	42.1	42.1	22.1	48.2	62.2	70.2	72.2	16.1
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°	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4	1093.4
2.5°	1093.4	1069.4	1023.2	981.1	938.9	910.9	882.8	872.7	858.7	848.7	856.7
5°	1103.5	1053.3	965.0	890.8	840.6	802.5	784.5	774.4	766.4	764.4	762.4
7.5°	1115.5	1041.3	922.9	840.6	792.5	774.4	770.4	770.4	770.4	772.4	774.4
10°	1141.6	1045.3	900.8	812.5	786.5	782.5	784.5	792.5	792.5	794.5	794.5
12.5°	1171.7	1055.3	884.8	808.5	792.5	794.5	796.5	800.5	800.5	806.5	804.5
15°	1215.8	1075.4	882.8	812.5	798.5	794.5	794.5	792.5	792.5	792.5	796.5
17.5°	1272.0	1103.5	884.8	812.5	792.5	784.5	778.4	772.4	764.4	768.4	764.4
20°	1328.2	1137.6	884.8	802.5	776.4	756.4	738.3	728.3	718.3	716.2	718.3
22.5°	1398.4	1177.7	874.7	780.4	742.3	714.2	688.2	674.1	658.1	652.0	648.0
25°	1458.6	1209.8	854.7	748.3	704.2	664.1	630.0	605.9	585.8	581.8	581.8
27.5°	1520.8	1237.9	824.6	708.2	650.0	605.9	567.8	537.7	517.6	515.6	513.6
30°	1578.9	1262.0	784.5	664.1	601.9	549.7	505.6	479.5	461.4	451.4	445.4
32.5°	1655.2	1294.1	746.3	619.9	545.7	493.5	453.4	431.4	407.3	391.2	385.2
35°	1751.5	1332.2	704.2	571.8	495.6	443.4	419.3	387.2	357.1	339.1	333.0
37.5°	1859.8	1386.3	660.1	521.6	445.4	407.3	393.2	343.1	311.0	305.0	302.9
40°	1994.3	1438.5	609.9	469.5	397.2	387.2	363.1	311.0	294.9	292.9	290.9
42.5°	2128.7	1494.7	561.8	417.3	359.1	363.1	329.0	302.9	288.9	284.9	282.9
45°	2285.2	1550.9	513.6	371.2	329.0	329.0	311.0	294.9	282.9	278.9	278.9
47.5°	2449.7	1607.0	461.4	331.0	307.0	294.9	296.9	284.9	276.9	272.9	270.8
50°	2656.3	1661.2	413.3	302.9	292.9	276.9	282.9	274.9	270.8	266.8	264.8
52.5°	2850.9	1685.3	369.2	286.9	284.9	268.8	270.8	266.8	264.8	258.8	256.8
55°	3041.5	1679.3	335.1	278.9	274.9	266.8	262.8	260.8	258.8	252.8	250.8
57.5°	3254.2	1671.2	313.0	276.9	268.8	260.8	260.8	254.8	246.8	246.8	246.8
60°	3474.9	1645.2	302.9	276.9	266.8	260.8	256.8	250.8	242.8	244.8	242.8
62.5°	3723.7	1595.0	296.9	282.9	268.8	258.8	254.8	246.8	236.7	238.7	236.7
65°	3942.4	1492.7	292.9	288.9	272.9	260.8	250.8	240.8	228.7	230.7	228.7
67.5°	4090.8	1320.1	280.9	292.9	278.9	258.8	246.8	232.7	216.7	224.7	222.7
70°	4048.7	1073.4	258.8	284.9	284.9	260.8	240.8	222.7	204.6	220.7	214.7
72.5°	3721.7	806.5	216.7	256.8	280.9	260.8	228.7	206.6	190.6	200.6	188.6
75°	3055.6	547.7	172.5	204.6	262.8	262.8	218.7	190.6	170.5	164.5	160.5
77.5°	1906.0	341.1	134.4	150.5	220.7	260.8	208.7	170.5	142.4	138.4	134.4
80°	754.4	182.6	106.3	108.3	162.5	238.7	194.6	144.5	114.4	110.3	102.3
82.5°	172.5	92.3	74.2	72.2	100.3	194.6	176.6	114.4	88.3	88.3	74.2
85°	52.2	48.2	48.2	46.1	50.2	100.3	136.4	78.2	60.2	42.1	36.1
87.5°	14.0	20.1	18.1	16.1	16.1	14.0	44.1	20.1	12.0	6.0	4.0
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)