

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: P823467

Luminaire Tested: **TTN-D3-830-U-DL**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-11)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D3-830-U-DL
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5977 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

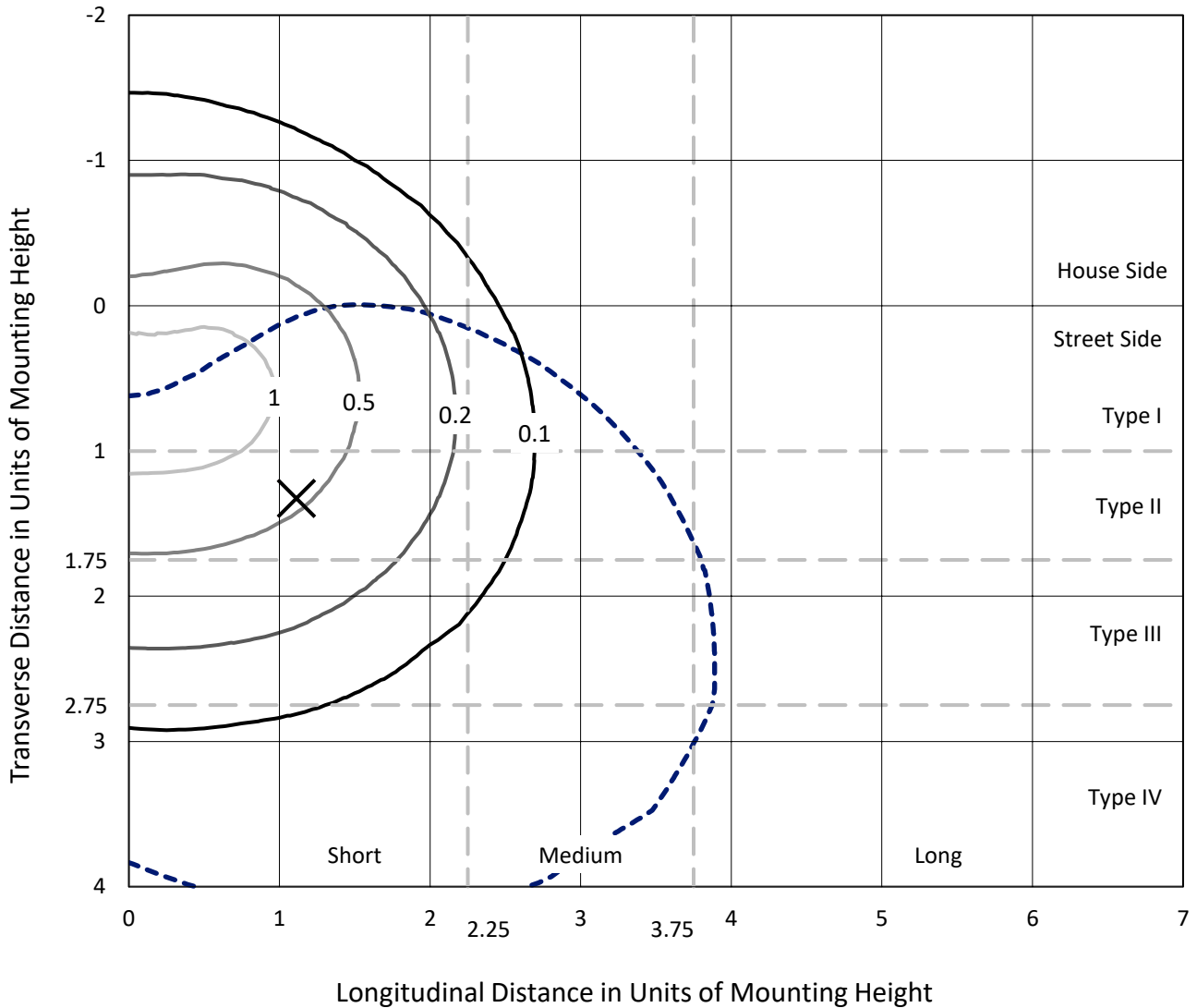
Input Watts (W): 59.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

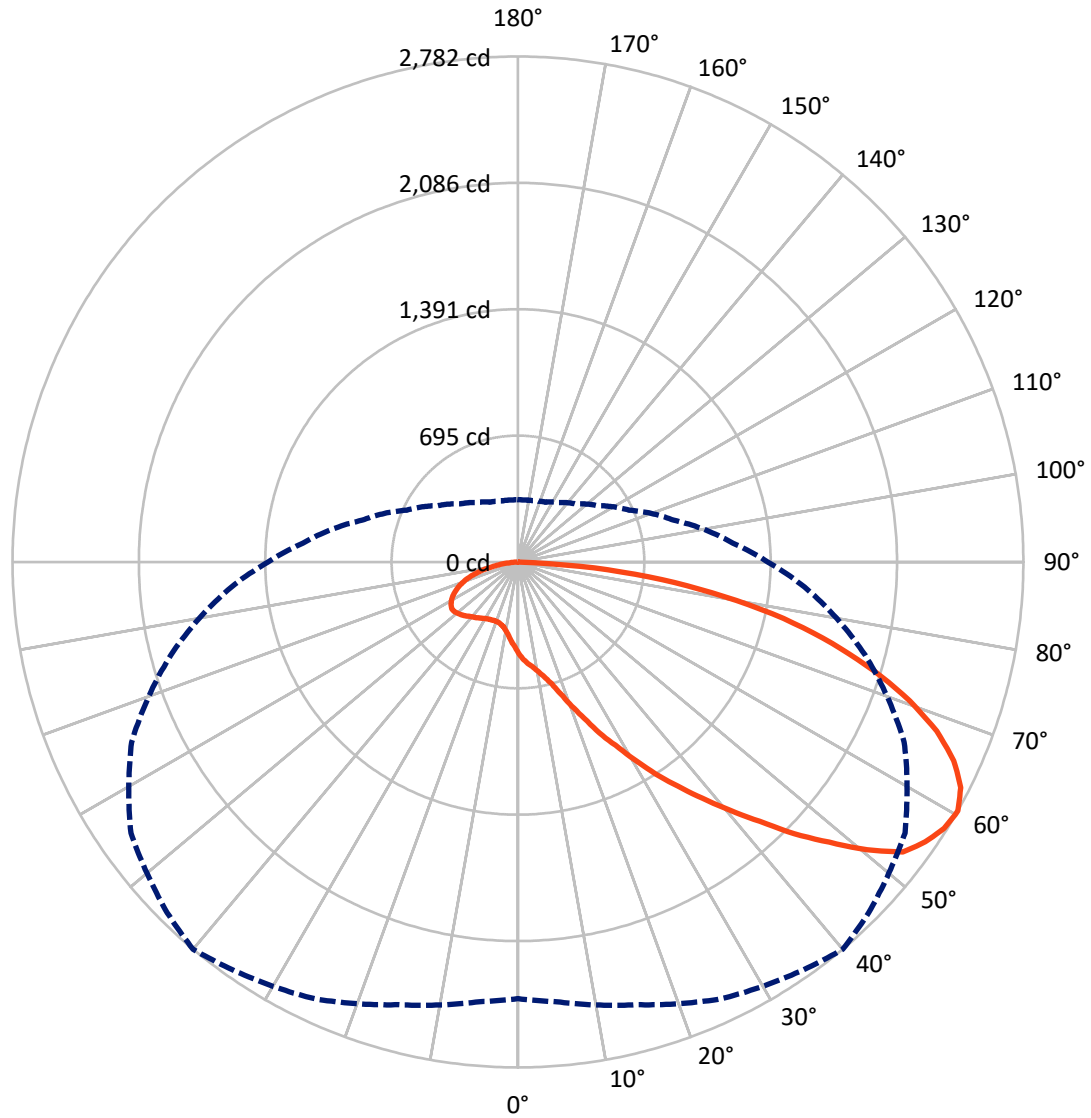
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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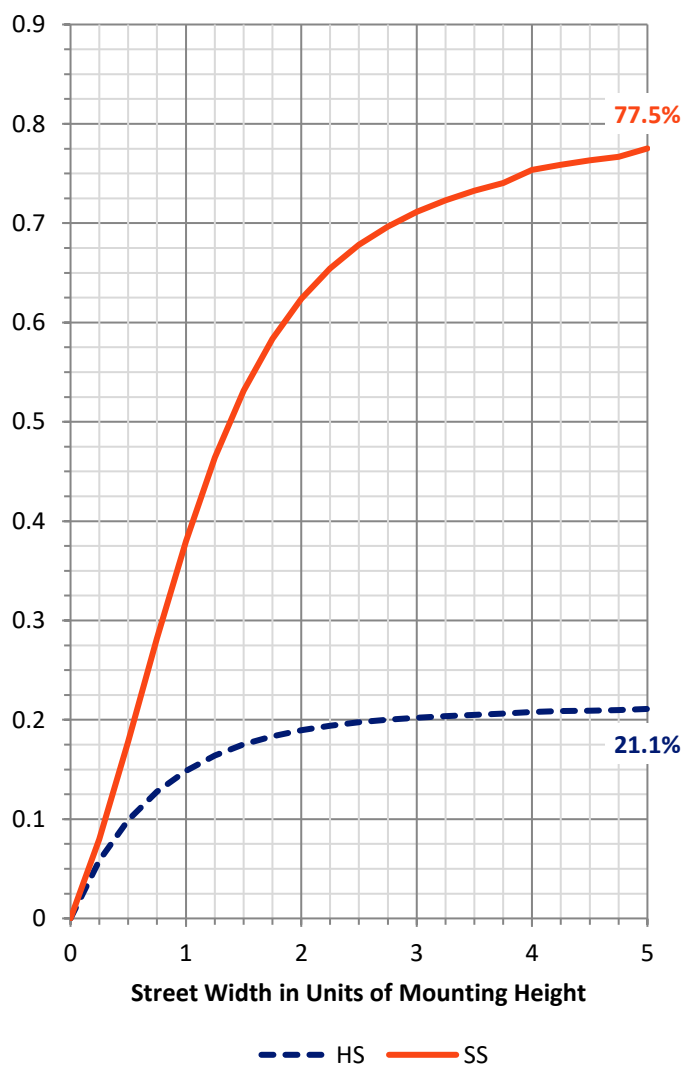
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1272.8	0.0	1272.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4704.2	0.0	4704.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	5977.0	0.0	5977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.8
10°-20°	151.5	2.5
20°-30°	320.1	5.4
30°-40°	585.0	9.8
40°-50°	950.5	15.9
50°-60°	1321.2	22.1
60°-70°	1369.6	22.9
70°-80°	981.4	16.4
80°-90°	250.2	4.2
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°	5977.0	100.0
0°-180°	5977.0	100.0

Coefficient of Utilization

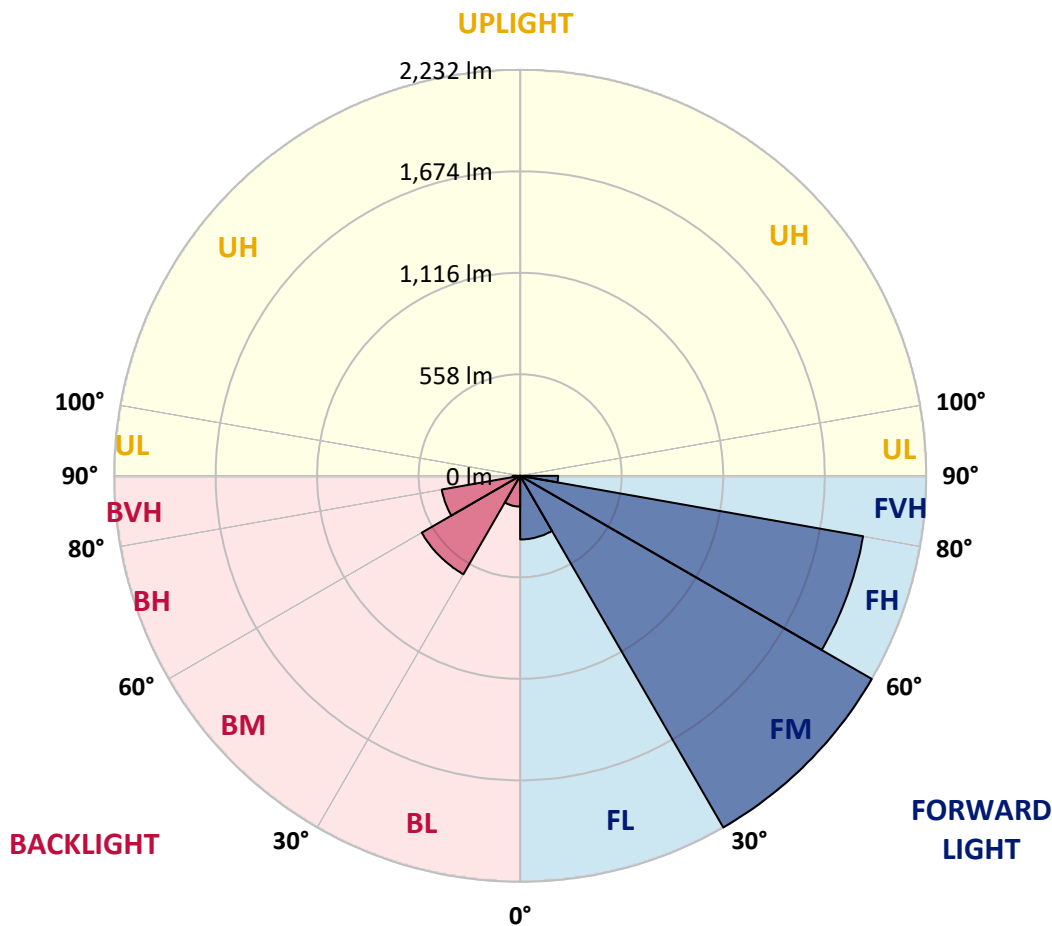


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.8	5.9			
FM (30°-60°)	2231.8	37.3			
FH (60°-80°)	1914.2	32.0			G2/5000
FVH (80°-90°)	208.5	3.5			G2/225
BL (0°-30°)	169.3	2.8	B1/500		
BM (30°-60°)	624.9	10.5	B1/1000		
BH (60°-80°)	436.9	7.3	B1/500		G1/500
BVH (80°-90°)	41.8	0.7			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4
2.5°	539.7	539.7	539.7	539.7	534.5	534.5	529.3	524.2	519.0	513.8	503.4
5°	586.4	586.4	581.2	576.1	565.7	560.5	555.3	544.9	534.5	524.2	508.6
7.5°	607.2	607.2	607.2	602.0	586.4	581.2	570.9	555.3	539.7	524.2	503.4
10°	643.5	643.5	638.3	633.1	617.6	612.4	602.0	581.2	555.3	529.3	503.4
12.5°	690.2	685.0	679.8	674.7	659.1	648.7	633.1	612.4	581.2	550.1	519.0
15°	747.3	736.9	736.9	726.5	711.0	695.4	685.0	653.9	622.8	581.2	539.7
17.5°	809.6	804.4	799.2	788.8	773.3	762.9	747.3	711.0	669.5	617.6	570.9
20°	887.4	877.0	882.2	866.7	851.1	845.9	820.0	778.4	726.5	669.5	612.4
22.5°	980.8	970.5	970.5	954.9	944.5	934.1	908.2	861.5	794.0	731.7	659.1
25°	1084.6	1074.3	1074.3	1063.9	1053.5	1043.1	1012.0	960.1	882.2	804.4	721.4
27.5°	1198.8	1188.4	1188.4	1183.2	1157.3	1141.7	1115.8	1058.7	980.8	882.2	783.6
30°	1318.2	1307.8	1318.2	1307.8	1292.2	1261.1	1229.9	1167.7	1079.4	970.5	851.1
32.5°	1411.6	1411.6	1416.8	1427.2	1416.8	1390.8	1354.5	1302.6	1183.2	1048.3	913.4
35°	1520.6	1520.6	1530.9	1546.5	1541.3	1515.4	1479.0	1422.0	1297.4	1136.5	980.8
37.5°	1639.9	1639.9	1650.3	1676.3	1665.9	1650.3	1624.4	1551.7	1411.6	1224.8	1053.5
40°	1769.7	1764.5	1774.9	1811.2	1816.4	1795.6	1764.5	1691.8	1530.9	1338.9	1131.3
42.5°	1899.4	1894.2	1915.0	1951.3	1956.5	1951.3	1920.2	1837.1	1655.5	1453.1	1209.2
45°	2029.1	2029.1	2060.3	2117.4	2143.3	2132.9	2107.0	2003.2	1811.2	1572.5	1313.0
47.5°	2164.1	2164.1	2205.6	2278.3	2309.4	2304.2	2293.8	2169.3	1961.7	1697.0	1401.2
50°	2267.9	2267.9	2335.3	2418.4	2470.3	2491.0	2439.1	2325.0	2091.4	1806.0	1473.9
52.5°	2371.7	2371.7	2439.1	2568.9	2620.8	2651.9	2584.4	2465.1	2236.7	1904.6	1541.3
55°	2423.6	2433.9	2527.4	2651.9	2734.9	2719.4	2745.3	2584.4	2330.1	1977.3	1582.8
57.5°	2428.8	2444.3	2548.1	2677.9	2771.3	2766.1	2771.3	2626.0	2366.5	1992.8	1588.0
60°	2402.8	2428.8	2522.2	2651.9	2740.1	2781.6	2729.8	2600.0	2345.7	1977.3	1582.8
62.5°	2340.5	2392.4	2491.0	2589.6	2719.4	2734.9	2693.4	2584.4	2288.6	1961.7	1556.9
65°	2200.4	2257.5	2397.6	2511.8	2615.6	2636.3	2589.6	2496.2	2231.5	1889.0	1473.9
67.5°	2060.3	2096.6	2216.0	2392.4	2465.1	2485.8	2470.3	2361.3	2132.9	1743.7	1375.3
70°	1899.4	1946.1	2039.5	2221.2	2293.8	2288.6	2335.3	2210.8	1982.4	1619.2	1271.5
72.5°	1681.4	1748.9	1842.3	1992.8	2081.0	2049.9	2122.6	2018.8	1785.2	1463.5	1131.3
75°	1427.2	1484.2	1603.6	1723.0	1821.6	1785.2	1842.3	1769.7	1556.9	1276.7	970.5
77.5°	1141.7	1209.2	1318.2	1427.2	1494.6	1494.6	1520.6	1458.3	1292.2	1048.3	794.0
80°	845.9	908.2	1006.8	1084.6	1146.9	1152.1	1178.0	1146.9	996.4	814.8	607.2
82.5°	560.5	591.6	679.8	742.1	804.4	799.2	840.7	820.0	695.4	560.5	404.8
85°	238.7	259.5	332.1	384.0	441.1	420.4	477.4	472.3	373.7	269.9	181.6
87.5°	10.4	15.6	15.6	10.4	15.6	5.2	15.6	20.8	15.6	10.4	10.4
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°	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4
2.5°	503.4	498.2	487.8	482.6	477.4	467.1	467.1	461.9	461.9	461.9	456.7
5°	503.4	493.0	482.6	467.1	456.7	446.3	435.9	425.6	420.4	420.4	415.2
7.5°	493.0	482.6	467.1	451.5	435.9	415.2	404.8	384.0	378.8	373.7	373.7
10°	493.0	482.6	456.7	435.9	415.2	394.4	378.8	358.1	342.5	337.3	337.3
12.5°	498.2	482.6	456.7	430.7	404.8	378.8	358.1	337.3	321.8	311.4	311.4
15°	519.0	498.2	467.1	430.7	399.6	368.5	347.7	321.8	306.2	295.8	295.8
17.5°	544.9	524.2	477.4	435.9	399.6	363.3	337.3	311.4	295.8	285.4	280.2
20°	581.2	550.1	498.2	441.1	399.6	363.3	332.1	306.2	285.4	275.1	275.1
22.5°	622.8	586.4	519.0	451.5	404.8	363.3	332.1	301.0	280.2	269.9	269.9
25°	674.7	627.9	550.1	472.3	415.2	368.5	332.1	301.0	280.2	269.9	269.9
27.5°	731.7	679.8	581.2	493.0	425.6	373.7	332.1	301.0	280.2	269.9	269.9
30°	783.6	726.5	612.4	513.8	441.1	378.8	337.3	306.2	285.4	275.1	269.9
32.5°	840.7	768.1	643.5	534.5	451.5	389.2	342.5	311.4	285.4	275.1	275.1
35°	897.8	820.0	674.7	560.5	467.1	399.6	347.7	316.6	290.6	280.2	280.2
37.5°	960.1	877.0	711.0	581.2	482.6	410.0	358.1	321.8	295.8	285.4	285.4
40°	1032.7	934.1	747.3	607.2	498.2	420.4	363.3	332.1	306.2	295.8	295.8
42.5°	1100.2	986.0	783.6	627.9	513.8	430.7	373.7	337.3	316.6	306.2	306.2
45°	1167.7	1048.3	820.0	653.9	529.3	446.3	384.0	352.9	326.9	316.6	316.6
47.5°	1245.5	1105.4	861.5	674.7	544.9	456.7	394.4	363.3	337.3	332.1	326.9
50°	1307.8	1146.9	887.4	695.4	555.3	467.1	404.8	368.5	347.7	337.3	337.3
52.5°	1364.9	1188.4	908.2	705.8	560.5	472.3	415.2	378.8	358.1	347.7	347.7
55°	1396.0	1204.0	923.8	705.8	565.7	477.4	415.2	378.8	358.1	352.9	347.7
57.5°	1396.0	1204.0	913.4	695.4	555.3	467.1	410.0	373.7	358.1	347.7	347.7
60°	1375.3	1188.4	887.4	674.7	539.7	451.5	399.6	363.3	347.7	342.5	342.5
62.5°	1344.1	1162.5	866.7	648.7	519.0	430.7	384.0	347.7	337.3	337.3	332.1
65°	1261.1	1084.6	820.0	612.4	487.8	404.8	363.3	332.1	321.8	316.6	311.4
67.5°	1172.9	1012.0	747.3	570.9	446.3	378.8	337.3	311.4	295.8	295.8	290.6
70°	1084.6	934.1	679.8	513.8	399.6	347.7	306.2	280.2	269.9	269.9	269.9
72.5°	965.3	835.5	602.0	451.5	352.9	306.2	275.1	249.1	243.9	243.9	238.7
75°	825.2	711.0	508.6	384.0	295.8	259.5	233.5	207.6	207.6	207.6	207.6
77.5°	674.7	576.1	404.8	306.2	233.5	207.6	192.0	171.3	171.3	171.3	171.3
80°	508.6	425.6	295.8	223.2	171.3	150.5	140.1	129.7	134.9	134.9	129.7
82.5°	332.1	280.2	186.8	140.1	109.0	98.6	98.6	88.2	93.4	93.4	93.4
85°	145.3	124.6	77.8	62.3	51.9	51.9	51.9	46.7	51.9	51.9	51.9
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	0.0	5.2	10.4	5.2
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)