

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: P832706

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

Issue Date: 5/14/2024

Test Information

Test Method: LM-79-08
Report Number: P832706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D3-830-U-DL-CG
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5925 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

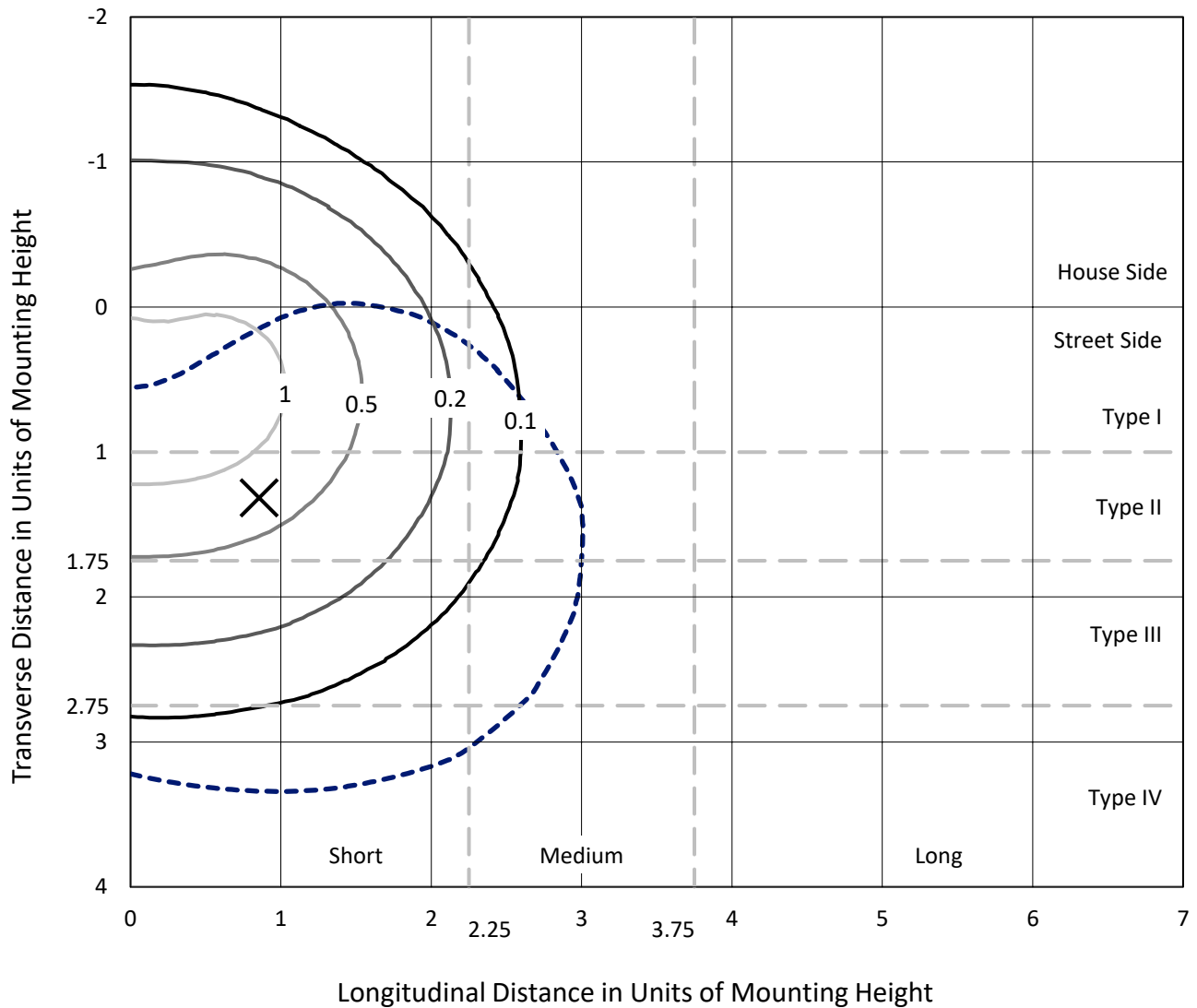
Input Watts (W): 59.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

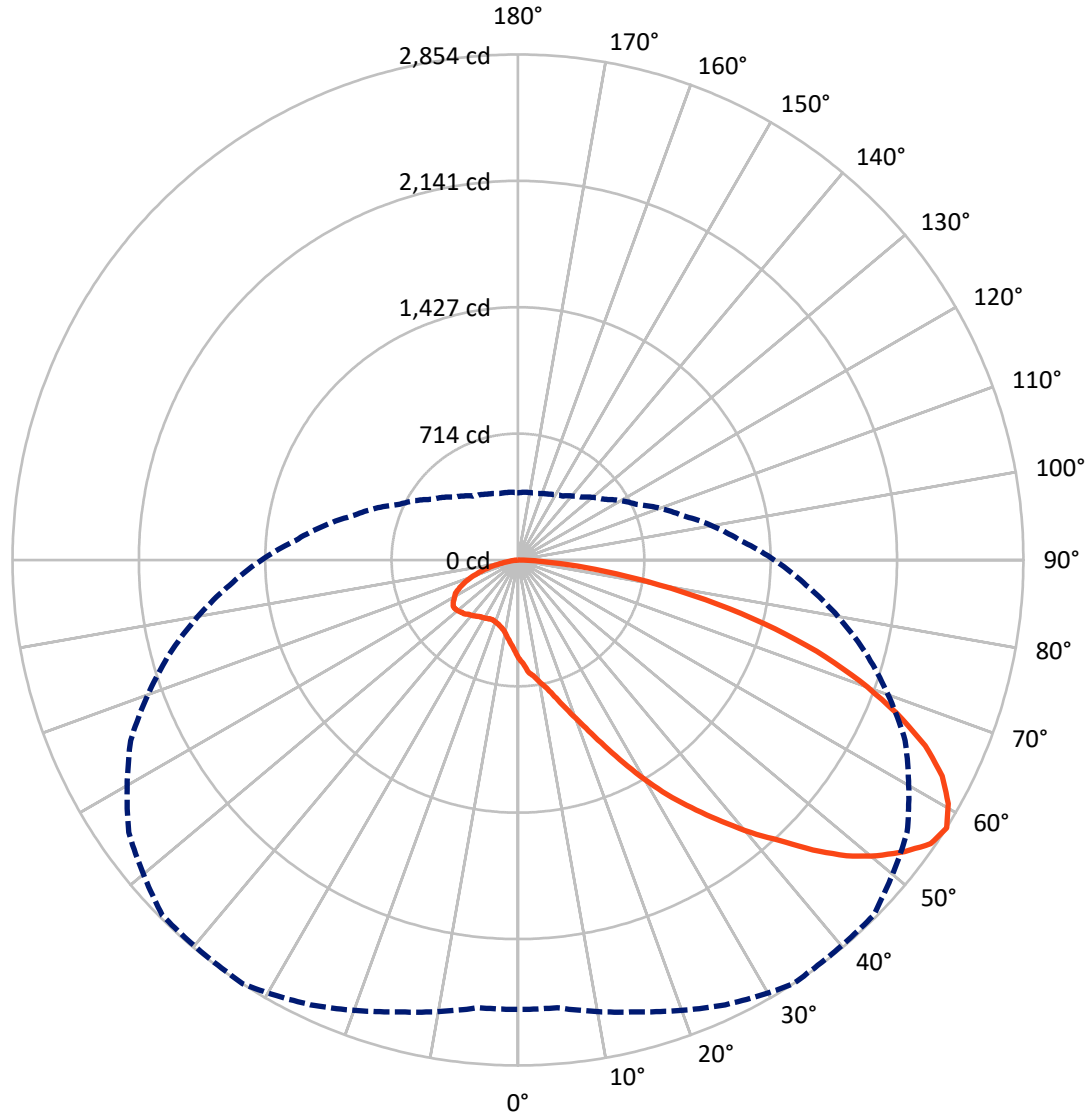
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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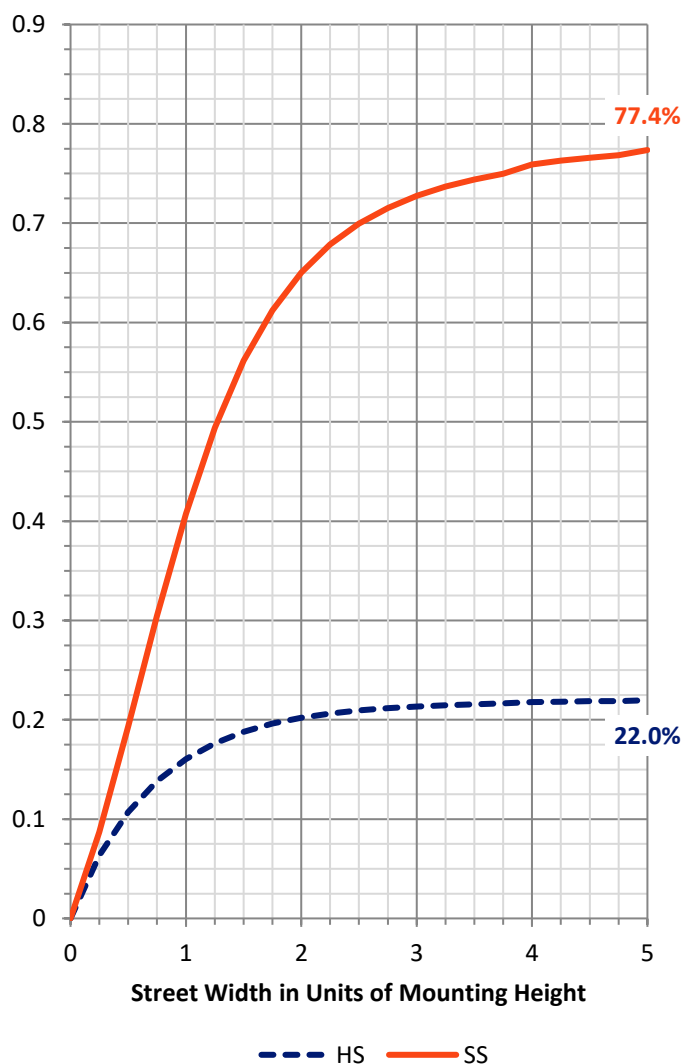
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1307.4	0.0	1307.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4617.6	0.0	4617.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	5925.0	0.0	5925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.9
10°-20°	172.3	2.9
20°-30°	363.3	6.1
30°-40°	659.8	11.1
40°-50°	1042.6	17.6
50°-60°	1384.6	23.4
60°-70°	1332.7	22.5
70°-80°	782.3	13.2
80°-90°	134.3	2.3
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°	5925.0	100.0
0°-180°	5925.0	100.0

Coefficient of Utilization



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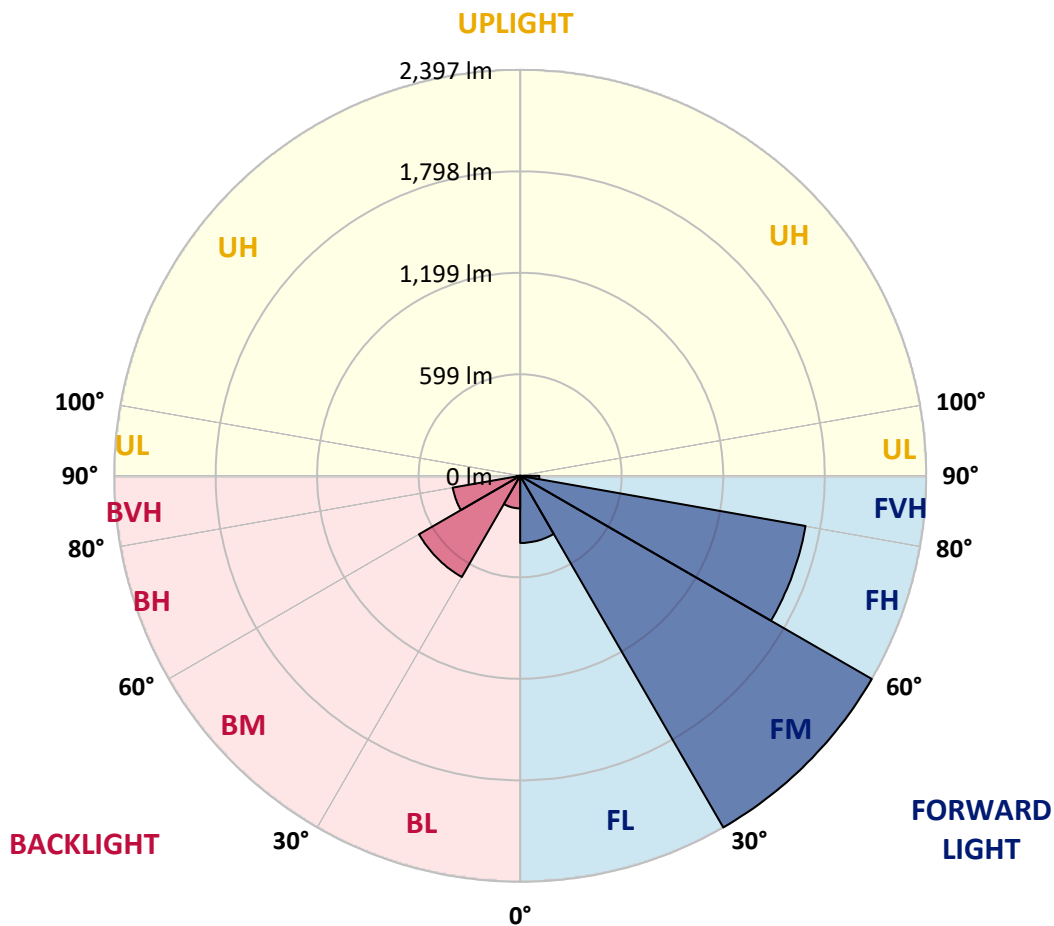
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.4	6.7			
FM (30°-60°)	2397.1	40.5			
FH (60°-80°)	1710.7	28.9			G1/1800
FVH (80°-90°)	113.4	1.9			G2/225
BL (0°-30°)	192.3	3.2	B1/500		
BM (30°-60°)	689.9	11.6	B1/1000		
BH (60°-80°)	404.3	6.8	B1/500		G1/500
BVH (80°-90°)	20.9	0.4			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°	33°	35°	45°	55°	65°	75°	85°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	591.6	596.8	591.6	591.6	586.5	586.5	581.3	576.1	570.9	565.7	555.3
5°	659.1	659.1	653.9	643.5	638.4	633.2	622.8	607.2	596.8	581.3	565.7
7.5°	690.3	690.3	685.1	674.7	664.3	659.1	643.5	622.8	607.2	586.5	565.7
10°	731.8	737.0	726.6	716.2	705.8	700.6	679.9	653.9	628.0	602.0	570.9
12.5°	778.5	783.7	778.5	762.9	747.3	742.2	721.4	690.3	659.1	622.8	586.5
15°	840.8	851.1	835.6	825.2	809.6	804.4	778.5	742.2	705.8	659.1	612.4
17.5°	913.4	918.6	908.2	892.7	882.3	877.1	851.1	809.6	757.7	705.8	648.7
20°	996.5	1001.6	996.5	975.7	965.3	960.1	934.2	887.5	825.2	768.1	695.4
22.5°	1095.1	1105.4	1089.9	1074.3	1063.9	1063.9	1032.8	980.9	908.2	835.6	752.5
25°	1209.2	1224.8	1204.0	1193.7	1183.3	1178.1	1152.2	1089.9	1006.8	918.6	814.8
27.5°	1349.4	1359.7	1344.2	1339.0	1318.2	1318.2	1276.7	1204.0	1115.8	1012.0	892.7
30°	1473.9	1484.3	1473.9	1473.9	1458.4	1453.2	1411.6	1339.0	1230.0	1105.4	960.1
32.5°	1593.3	1603.7	1598.5	1603.7	1598.5	1593.3	1541.4	1463.5	1354.6	1193.7	1027.6
35°	1712.7	1728.2	1723.0	1738.6	1733.4	1728.2	1686.7	1593.3	1463.5	1302.7	1100.3
37.5°	1837.2	1852.8	1852.8	1868.4	1873.5	1873.5	1826.8	1728.2	1582.9	1401.3	1183.3
40°	1972.2	1987.7	1987.7	2013.7	2024.0	2024.0	1972.2	1873.5	1712.7	1510.3	1271.5
42.5°	2101.9	2117.5	2122.7	2148.6	2164.2	2169.4	2127.8	2013.7	1826.8	1619.2	1354.6
45°	2226.5	2242.0	2257.6	2309.5	2335.4	2330.3	2299.1	2179.7	1972.2	1733.4	1442.8
47.5°	2345.8	2366.6	2392.5	2460.0	2496.3	2491.1	2470.4	2335.4	2107.1	1842.4	1520.6
50°	2439.2	2454.8	2506.7	2579.4	2626.1	2631.3	2600.1	2470.4	2221.3	1925.4	1577.7
52.5°	2511.9	2532.7	2594.9	2698.7	2735.1	2750.6	2714.3	2584.6	2335.4	1998.1	1624.4
55°	2563.8	2563.8	2657.2	2776.6	2828.5	2838.9	2838.9	2678.0	2402.9	2044.8	1650.4
57.5°	2537.8	2537.8	2641.6	2771.4	2854.4	2849.2	2838.9	2683.2	2413.3	2034.4	1634.8
60°	2465.2	2480.8	2579.4	2709.1	2792.1	2787.0	2755.8	2615.7	2361.4	1992.9	1603.7
62.5°	2366.6	2392.5	2496.3	2594.9	2688.4	2703.9	2662.4	2537.8	2273.2	1930.6	1546.6
65°	2179.7	2216.1	2345.8	2454.8	2527.5	2558.6	2506.7	2392.5	2153.8	1811.3	1427.2
67.5°	1972.2	1998.1	2107.1	2262.8	2304.3	2335.4	2309.5	2190.1	1987.7	1619.2	1292.3
70°	1733.4	1774.9	1847.6	2003.3	2050.0	2081.1	2081.1	1961.8	1769.7	1422.0	1131.4
72.5°	1453.2	1499.9	1588.1	1702.3	1764.6	1785.3	1780.1	1681.5	1510.3	1204.0	954.9
75°	1147.0	1183.3	1287.1	1370.1	1437.6	1453.2	1448.0	1364.9	1209.2	970.5	757.7
77.5°	845.9	882.3	960.1	1022.4	1084.7	1074.3	1074.3	1012.0	913.4	721.4	576.1
80°	555.3	586.5	653.9	674.7	742.2	737.0	737.0	690.3	622.8	482.7	384.1
82.5°	306.2	332.2	378.9	399.6	441.1	430.8	435.9	404.8	363.3	269.9	218.0
85°	109.0	129.7	155.7	171.3	192.0	192.0	192.0	166.1	155.7	103.8	88.2
87.5°	5.2	10.4	20.8	20.8	31.1	31.1	31.1	20.8	20.8	5.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	550.1	544.9	539.7	529.4	524.2	519.0	513.8	508.6	508.6	508.6	508.6
5°	555.3	550.1	534.6	519.0	503.4	487.8	477.5	472.3	467.1	461.9	461.9
7.5°	555.3	544.9	524.2	503.4	487.8	467.1	451.5	435.9	425.6	420.4	420.4
10°	560.5	544.9	519.0	498.2	472.3	446.3	425.6	404.8	394.4	384.1	384.1
12.5°	570.9	555.3	519.0	493.0	461.9	430.8	404.8	384.1	368.5	358.1	358.1
15°	591.6	570.9	529.4	493.0	456.7	420.4	394.4	368.5	352.9	342.5	342.5
17.5°	622.8	596.8	544.9	493.0	451.5	415.2	384.1	358.1	337.3	327.0	327.0
20°	659.1	628.0	565.7	503.4	451.5	410.0	378.9	347.7	327.0	316.6	316.6
22.5°	711.0	664.3	591.6	519.0	461.9	415.2	373.7	342.5	321.8	311.4	311.4
25°	768.1	716.2	622.8	539.7	472.3	415.2	373.7	342.5	321.8	311.4	306.2
27.5°	830.4	773.3	659.1	560.5	482.7	425.6	378.9	342.5	321.8	311.4	311.4
30°	887.5	820.0	695.4	586.5	498.2	430.8	384.1	347.7	321.8	311.4	311.4
32.5°	949.7	871.9	731.8	612.4	513.8	441.1	389.2	352.9	327.0	316.6	311.4
35°	1012.0	923.8	768.1	633.2	529.4	451.5	394.4	358.1	332.2	321.8	321.8
37.5°	1079.5	980.9	804.4	659.1	544.9	461.9	404.8	363.3	337.3	327.0	327.0
40°	1152.2	1038.0	840.8	679.9	560.5	472.3	415.2	373.7	347.7	337.3	337.3
42.5°	1224.8	1100.3	882.3	705.8	576.1	482.7	420.4	384.1	358.1	347.7	347.7
45°	1297.5	1152.2	918.6	731.8	591.6	498.2	435.9	394.4	368.5	358.1	358.1
47.5°	1364.9	1209.2	949.7	747.3	607.2	508.6	441.1	404.8	378.9	373.7	368.5
50°	1411.6	1245.6	970.5	762.9	612.4	513.8	451.5	410.0	389.2	378.9	378.9
52.5°	1448.0	1281.9	986.1	773.3	617.6	519.0	456.7	420.4	399.6	389.2	384.1
55°	1468.7	1287.1	986.1	762.9	612.4	519.0	456.7	420.4	399.6	389.2	389.2
57.5°	1448.0	1261.1	965.3	742.2	596.8	503.4	441.1	410.0	389.2	384.1	378.9
60°	1406.5	1219.6	923.8	711.0	570.9	477.5	420.4	394.4	378.9	373.7	368.5
62.5°	1349.4	1167.7	882.3	669.5	534.6	446.3	404.8	373.7	363.3	358.1	352.9
65°	1235.2	1069.1	814.8	617.6	487.8	410.0	368.5	347.7	337.3	327.0	321.8
67.5°	1110.6	960.1	721.4	555.3	430.8	368.5	332.2	311.4	295.8	295.8	290.6
70°	975.7	845.9	622.8	472.3	373.7	321.8	285.4	269.9	259.5	259.5	254.3
72.5°	814.8	711.0	519.0	384.1	306.2	264.7	238.7	223.2	218.0	218.0	212.8
75°	653.9	560.5	410.0	301.0	238.7	207.6	186.8	176.5	171.3	171.3	166.1
77.5°	482.7	410.0	295.8	218.0	171.3	150.5	134.9	129.7	124.6	124.6	119.4
80°	321.8	269.9	192.0	140.1	103.8	93.4	83.0	83.0	77.8	83.0	77.8
82.5°	176.5	145.3	103.8	72.7	51.9	46.7	41.5	41.5	46.7	46.7	41.5
85°	67.5	51.9	36.3	20.8	15.6	15.6	15.6	15.6	15.6	15.6	10.4
87.5°	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)