

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: P832681

Luminaire Tested: **TTN-D3-735-U-DL-CG**

Issue Date: 5/14/2024

Test Information

Test Method: LM-79-08
Report Number: P832681
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-D3-735-U-DL-CG
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6268 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

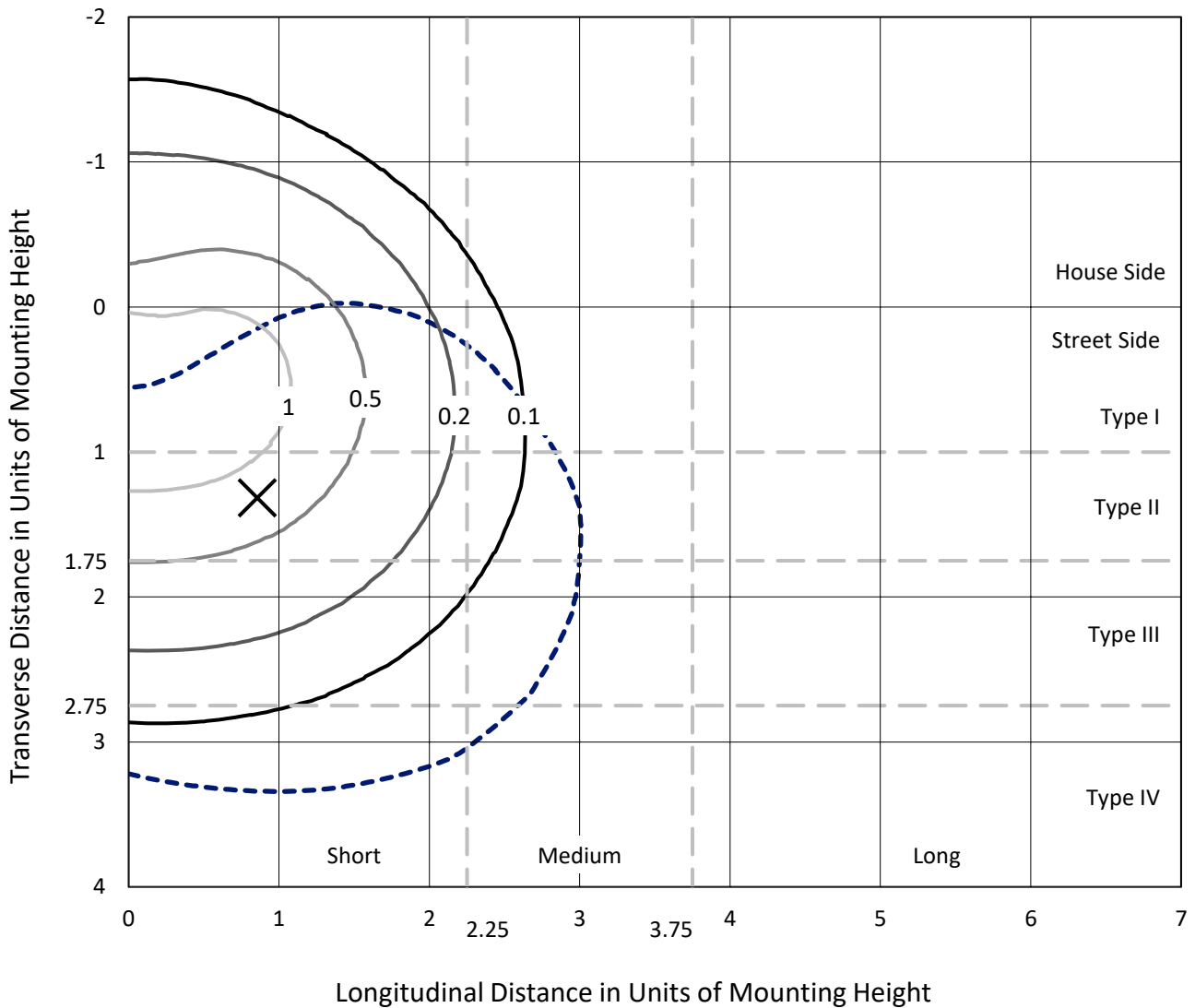
Input Watts (W): 59.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

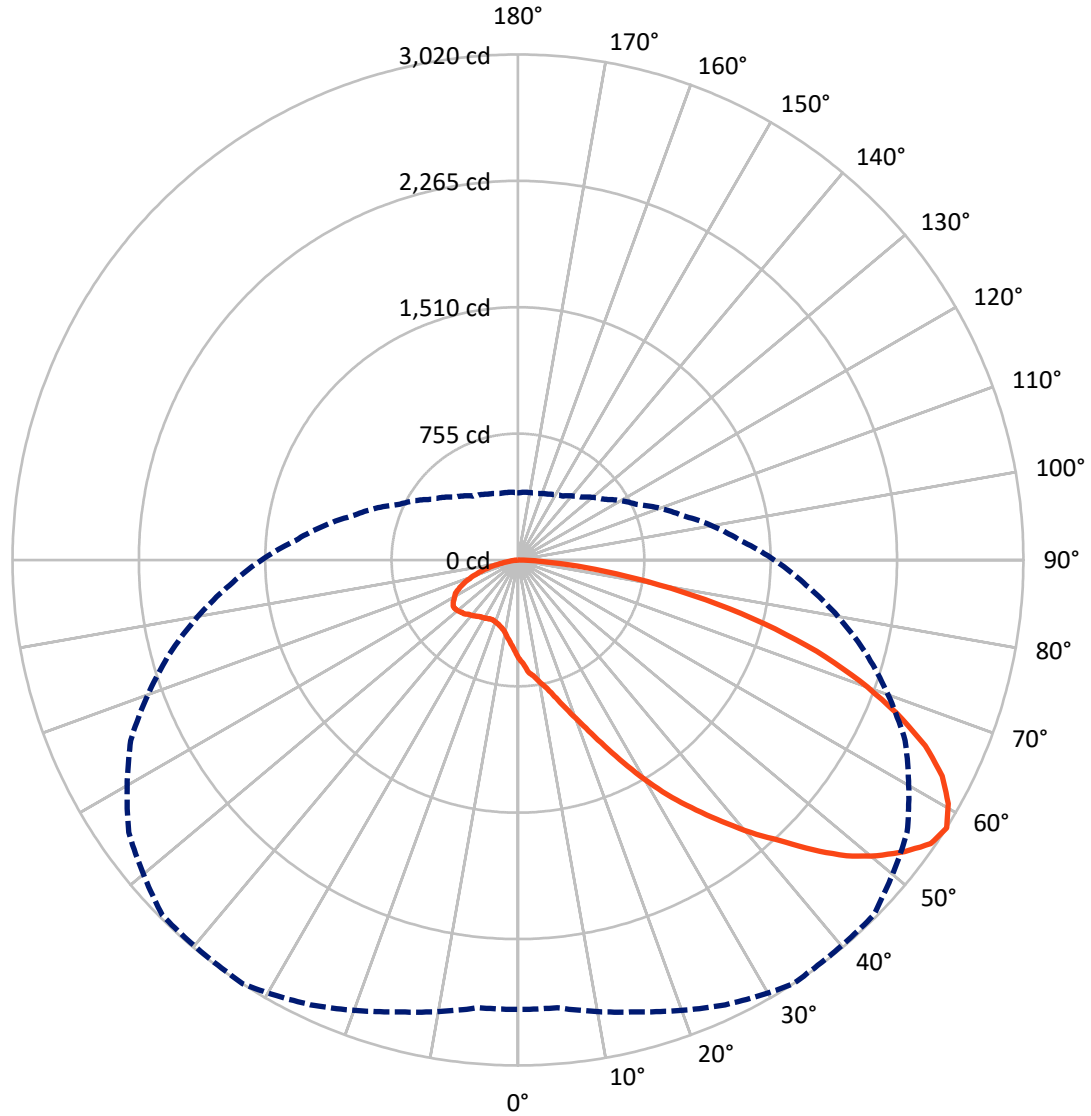
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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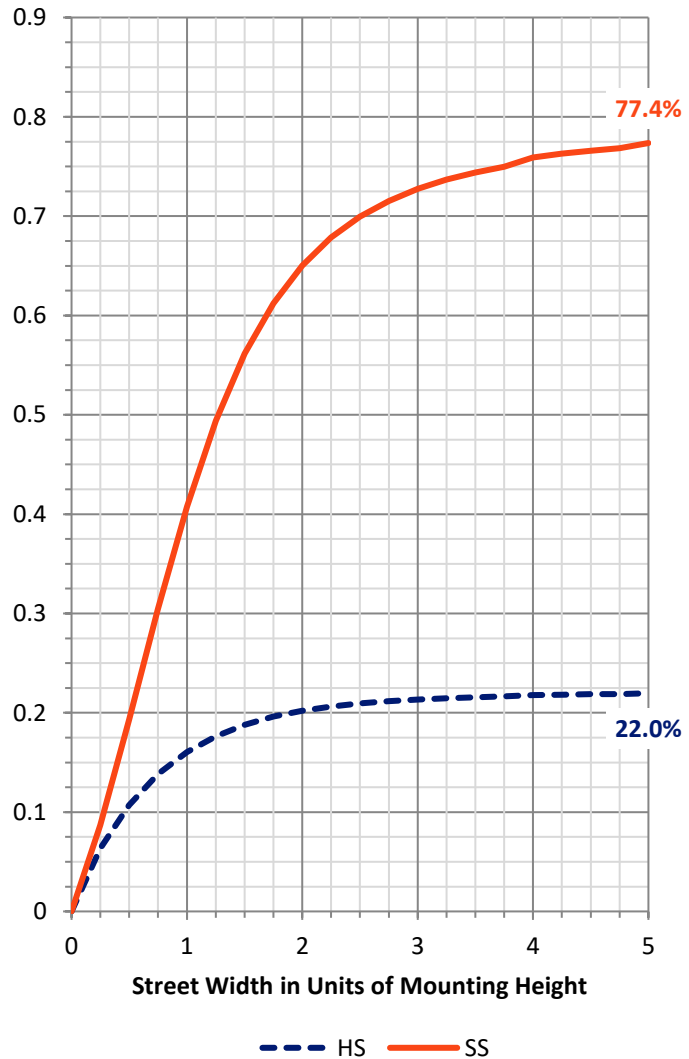
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.1	0.0	1383.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4884.9	0.0	4884.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	6268.0	0.0	6268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	0.9
10°-20°	182.3	2.9
20°-30°	384.4	6.1
30°-40°	698.0	11.1
40°-50°	1103.0	17.6
50°-60°	1464.8	23.4
60°-70°	1409.8	22.5
70°-80°	827.6	13.2
80°-90°	142.1	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°	6268.0	100.0
0°-180°	6268.0	100.0

Coefficient of Utilization



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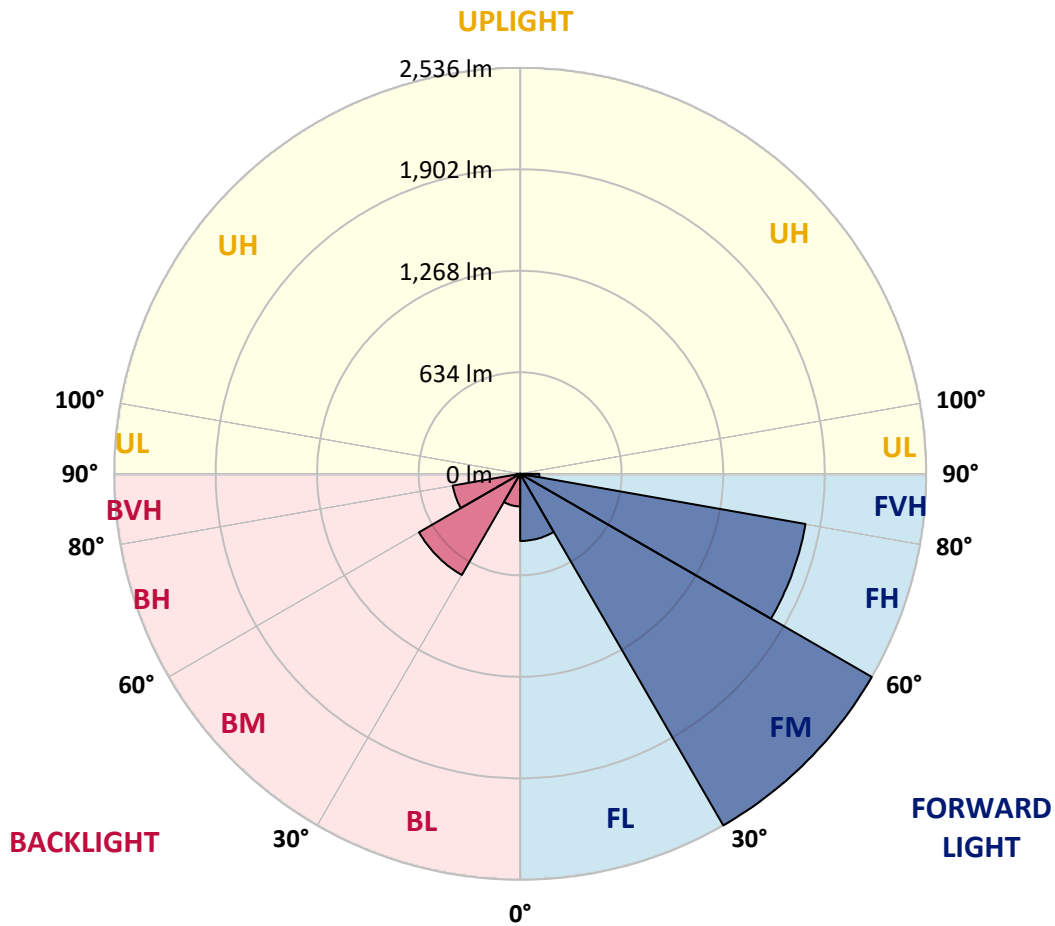
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.4	6.7			
FM (30°-60°)	2535.8	40.5			
FH (60°-80°)	1809.7	28.9			G2/5000
FVH (80°-90°)	120.0	1.9			G2/225
BL (0°-30°)	203.5	3.2	B1/500		
BM (30°-60°)	729.9	11.6	B1/1000		
BH (60°-80°)	427.7	6.8	B1/500		G1/500
BVH (80°-90°)	22.1	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°	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5
2.5°	625.9	631.4	625.9	625.9	620.4	620.4	614.9	609.4	603.9	598.4	587.5
5°	697.3	697.3	691.8	680.8	675.3	669.8	658.8	642.4	631.4	614.9	598.4
7.5°	730.2	730.2	724.7	713.7	702.8	697.3	680.8	658.8	642.4	620.4	598.4
10°	774.1	779.6	768.6	757.7	746.7	741.2	719.2	691.8	664.3	636.9	603.9
12.5°	823.5	829.0	823.5	807.1	790.6	785.1	763.2	730.2	697.3	658.8	620.4
15°	889.4	900.4	883.9	873.0	856.5	851.0	823.5	785.1	746.7	697.3	647.9
17.5°	966.3	971.8	960.8	944.3	933.4	927.9	900.4	856.5	801.6	746.7	686.3
20°	1054.1	1059.6	1054.1	1032.2	1021.2	1015.7	988.3	938.8	873.0	812.6	735.7
22.5°	1158.5	1169.4	1153.0	1136.5	1125.5	1125.5	1092.6	1037.7	960.8	883.9	796.1
25°	1279.2	1295.7	1273.8	1262.8	1251.8	1246.3	1218.8	1153.0	1065.1	971.8	862.0
27.5°	1427.5	1438.5	1422.0	1416.5	1394.5	1394.5	1350.6	1273.8	1180.4	1070.6	944.3
30°	1559.2	1570.2	1559.2	1559.2	1542.8	1537.3	1493.4	1416.5	1301.2	1169.4	1015.7
32.5°	1685.5	1696.5	1691.0	1696.5	1691.0	1685.5	1630.6	1548.3	1433.0	1262.8	1087.1
35°	1811.8	1828.3	1822.8	1839.3	1833.8	1828.3	1784.4	1685.5	1548.3	1378.1	1163.9
37.5°	1943.6	1960.0	1960.0	1976.5	1982.0	1982.0	1932.6	1828.3	1674.5	1482.4	1251.8
40°	2086.3	2102.8	2102.8	2130.2	2141.2	2141.2	2086.3	1982.0	1811.8	1597.7	1345.1
42.5°	2223.6	2240.0	2245.5	2273.0	2289.5	2295.0	2251.0	2130.2	1932.6	1713.0	1433.0
45°	2355.3	2371.8	2388.3	2443.2	2470.6	2465.2	2432.2	2305.9	2086.3	1833.8	1526.3
47.5°	2481.6	2503.6	2531.0	2602.4	2640.8	2635.3	2613.4	2470.6	2229.1	1949.1	1608.7
50°	2580.4	2596.9	2651.8	2728.7	2778.1	2783.6	2750.6	2613.4	2349.9	2036.9	1669.1
52.5°	2657.3	2679.3	2745.2	2855.0	2893.4	2909.9	2871.4	2734.2	2470.6	2113.8	1718.5
55°	2712.2	2712.2	2811.0	2937.3	2992.2	3003.2	3003.2	2833.0	2542.0	2163.2	1745.9
57.5°	2684.8	2684.8	2794.6	2931.8	3019.7	3014.2	3003.2	2838.5	2553.0	2152.2	1729.4
60°	2607.9	2624.4	2728.7	2865.9	2953.8	2948.3	2915.4	2767.1	2498.1	2108.3	1696.5
62.5°	2503.6	2531.0	2640.8	2745.2	2844.0	2860.5	2816.5	2684.8	2404.8	2042.4	1636.1
65°	2305.9	2344.4	2481.6	2596.9	2673.8	2706.7	2651.8	2531.0	2278.5	1916.1	1509.8
67.5°	2086.3	2113.8	2229.1	2393.8	2437.7	2470.6	2443.2	2316.9	2102.8	1713.0	1367.1
70°	1833.8	1877.7	1954.6	2119.3	2168.7	2201.6	2201.6	2075.3	1872.2	1504.3	1196.9
72.5°	1537.3	1586.7	1680.0	1800.8	1866.7	1888.7	1883.2	1778.9	1597.7	1273.8	1010.2
75°	1213.4	1251.8	1361.6	1449.4	1520.8	1537.3	1531.8	1444.0	1279.2	1026.7	801.6
77.5°	894.9	933.4	1015.7	1081.6	1147.5	1136.5	1136.5	1070.6	966.3	763.2	609.4
80°	587.5	620.4	691.8	713.7	785.1	779.6	779.6	730.2	658.8	510.6	406.3
82.5°	323.9	351.4	400.8	422.8	466.7	455.7	461.2	428.2	384.3	285.5	230.6
85°	115.3	137.3	164.7	181.2	203.1	203.1	203.1	175.7	164.7	109.8	93.3
87.5°	5.5	11.0	22.0	22.0	32.9	32.9	32.9	22.0	22.0	5.5	5.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5	587.5
2.5°	582.0	576.5	571.0	560.0	554.5	549.0	543.5	538.1	538.1	538.1	538.1
5°	587.5	582.0	565.5	549.0	532.6	516.1	505.1	499.6	494.1	488.6	488.6
7.5°	587.5	576.5	554.5	532.6	516.1	494.1	477.7	461.2	450.2	444.7	444.7
10°	593.0	576.5	549.0	527.1	499.6	472.2	450.2	428.2	417.3	406.3	406.3
12.5°	603.9	587.5	549.0	521.6	488.6	455.7	428.2	406.3	389.8	378.8	378.8
15°	625.9	603.9	560.0	521.6	483.1	444.7	417.3	389.8	373.3	362.4	362.4
17.5°	658.8	631.4	576.5	521.6	477.7	439.2	406.3	378.8	356.9	345.9	345.9
20°	697.3	664.3	598.4	532.6	477.7	433.7	400.8	367.9	345.9	334.9	334.9
22.5°	752.2	702.8	625.9	549.0	488.6	439.2	395.3	362.4	340.4	329.4	329.4
25°	812.6	757.7	658.8	571.0	499.6	439.2	395.3	362.4	340.4	329.4	323.9
27.5°	878.4	818.1	697.3	593.0	510.6	450.2	400.8	362.4	340.4	329.4	329.4
30°	938.8	867.5	735.7	620.4	527.1	455.7	406.3	367.9	340.4	329.4	329.4
32.5°	1004.7	922.4	774.1	647.9	543.5	466.7	411.8	373.3	345.9	334.9	329.4
35°	1070.6	977.3	812.6	669.8	560.0	477.7	417.3	378.8	351.4	340.4	340.4
37.5°	1142.0	1037.7	851.0	697.3	576.5	488.6	428.2	384.3	356.9	345.9	345.9
40°	1218.8	1098.1	889.4	719.2	593.0	499.6	439.2	395.3	367.9	356.9	356.9
42.5°	1295.7	1163.9	933.4	746.7	609.4	510.6	444.7	406.3	378.8	367.9	367.9
45°	1372.6	1218.8	971.8	774.1	625.9	527.1	461.2	417.3	389.8	378.8	378.8
47.5°	1444.0	1279.2	1004.7	790.6	642.4	538.1	466.7	428.2	400.8	395.3	389.8
50°	1493.4	1317.7	1026.7	807.1	647.9	543.5	477.7	433.7	411.8	400.8	400.8
52.5°	1531.8	1356.1	1043.2	818.1	653.3	549.0	483.1	444.7	422.8	411.8	406.3
55°	1553.8	1361.6	1043.2	807.1	647.9	549.0	483.1	444.7	422.8	411.8	411.8
57.5°	1531.8	1334.1	1021.2	785.1	631.4	532.6	466.7	433.7	411.8	406.3	400.8
60°	1487.9	1290.2	977.3	752.2	603.9	505.1	444.7	417.3	400.8	395.3	389.8
62.5°	1427.5	1235.3	933.4	708.3	565.5	472.2	428.2	395.3	384.3	378.8	373.3
65°	1306.7	1131.0	862.0	653.3	516.1	433.7	389.8	367.9	356.9	345.9	340.4
67.5°	1174.9	1015.7	763.2	587.5	455.7	389.8	351.4	329.4	312.9	312.9	307.5
70°	1032.2	894.9	658.8	499.6	395.3	340.4	302.0	285.5	274.5	274.5	269.0
72.5°	862.0	752.2	549.0	406.3	323.9	280.0	252.6	236.1	230.6	230.6	225.1
75°	691.8	593.0	433.7	318.4	252.6	219.6	197.7	186.7	181.2	181.2	175.7
77.5°	510.6	433.7	312.9	230.6	181.2	159.2	142.7	137.3	131.8	131.8	126.3
80°	340.4	285.5	203.1	148.2	109.8	98.8	87.8	87.8	82.4	87.8	82.4
82.5°	186.7	153.7	109.8	76.9	54.9	49.4	43.9	43.9	49.4	49.4	43.9
85°	71.4	54.9	38.4	22.0	16.5	16.5	16.5	16.5	16.5	16.5	11.0
87.5°	5.5	5.5	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)