

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: P823442

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

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823442
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-D3-735-U-DL
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6323 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

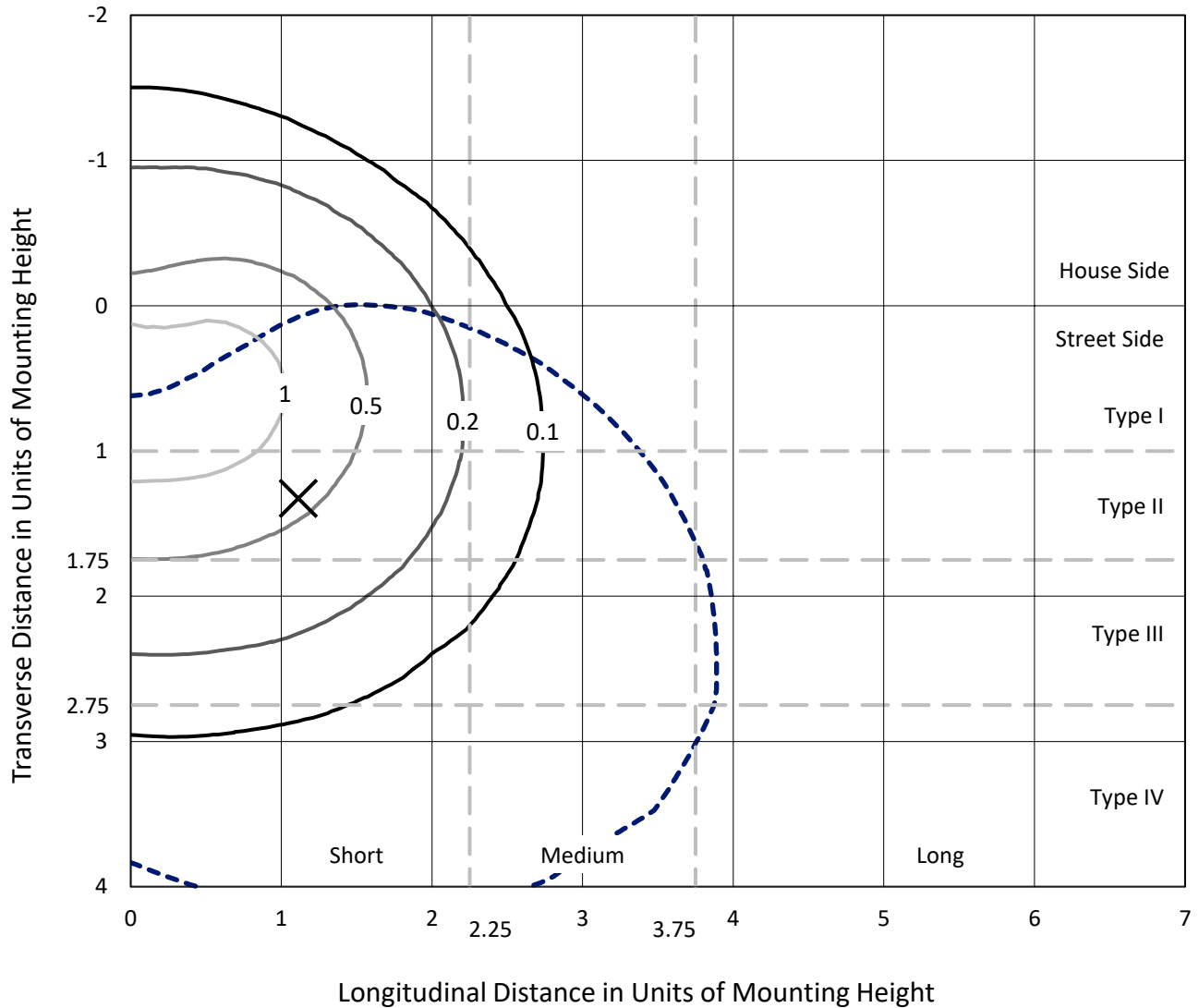
Input Watts (W): 59.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

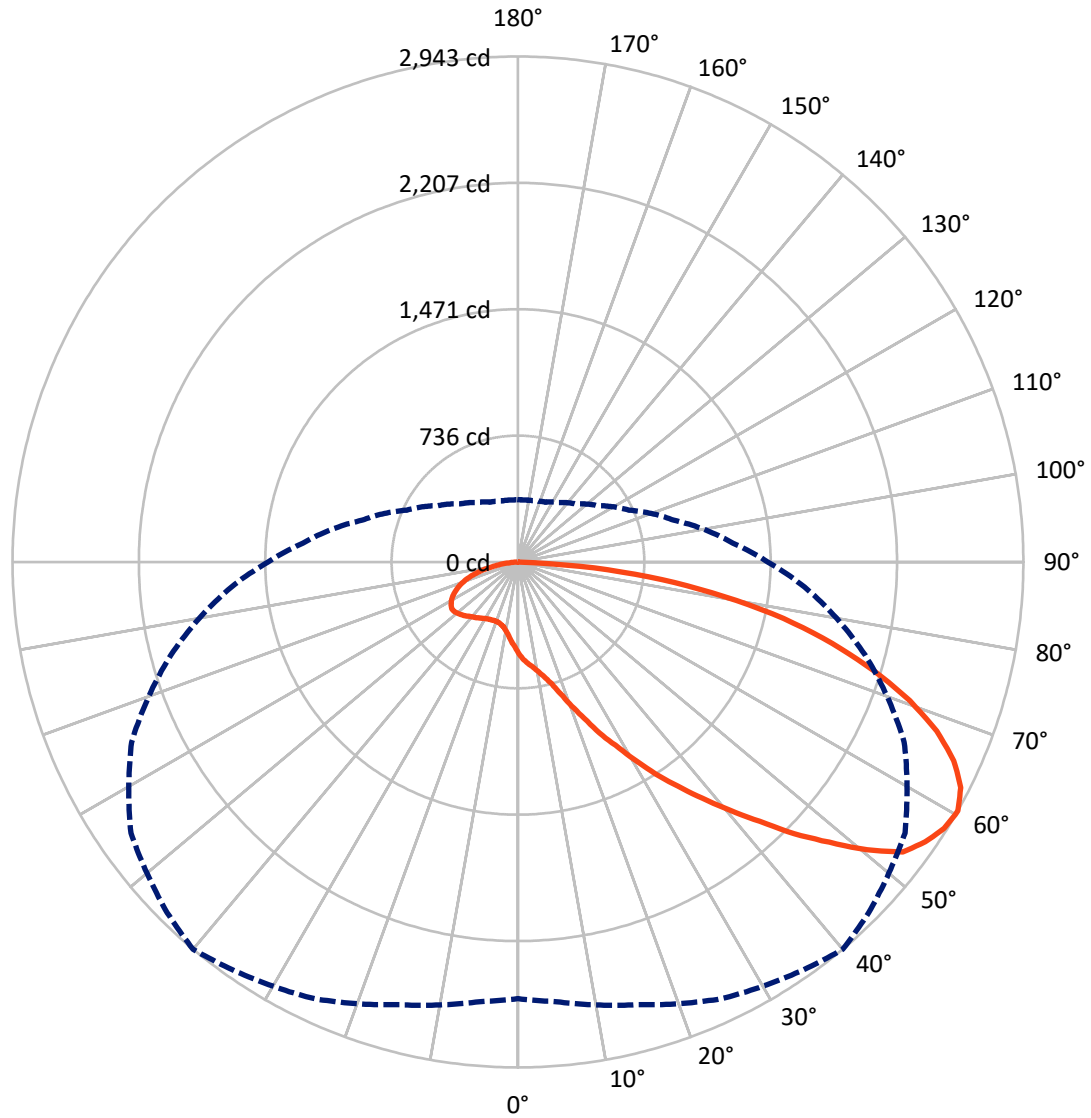
✕ Max cd
 - - - 1/2 Max cd



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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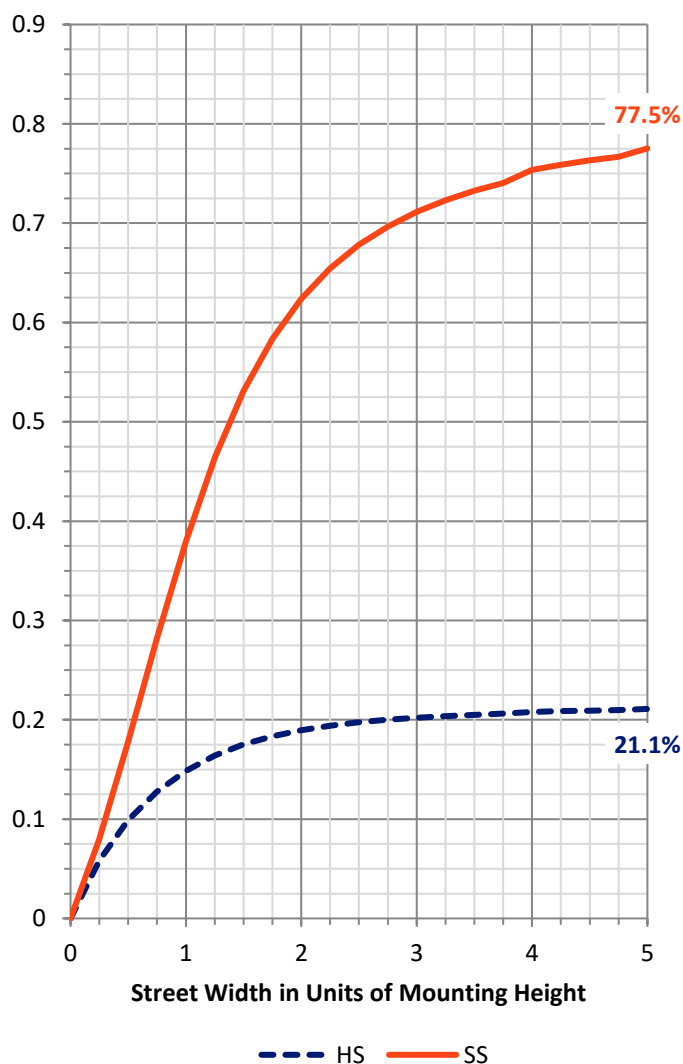
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.5	0.0	1346.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4976.5	0.0	4976.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	6323.0	0.0	6323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	0.8
10°-20°	160.3	2.5
20°-30°	338.6	5.4
30°-40°	618.8	9.8
40°-50°	1005.6	15.9
50°-60°	1397.7	22.1
60°-70°	1448.9	22.9
70°-80°	1038.2	16.4
80°-90°	264.7	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°	6323.0	100.0
0°-180°	6323.0	100.0

Coefficient of Utilization

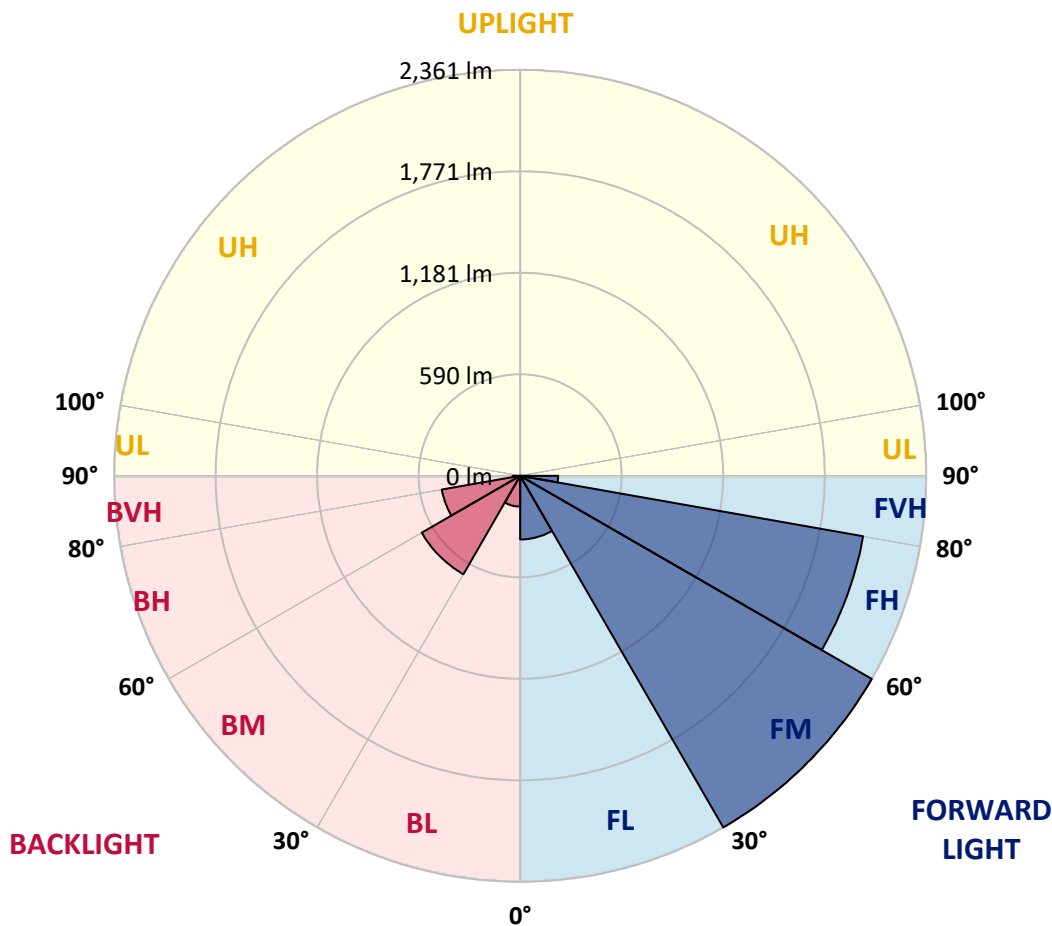


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.0	5.9			
FM (30°-60°)	2361.0	37.3			
FH (60°-80°)	2025.0	32.0			G2/5000
FVH (80°-90°)	220.5	3.5			G2/225
BL (0°-30°)	179.1	2.8	B1/500		
BM (30°-60°)	661.1	10.5	B1/1000		
BH (60°-80°)	462.2	7.3	B1/500		G1/500
BVH (80°-90°)	44.2	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°	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5
2.5°	571.0	571.0	571.0	571.0	565.5	565.5	560.0	554.5	549.0	543.5	532.5
5°	620.4	620.4	614.9	609.4	598.4	592.9	587.4	576.5	565.5	554.5	538.0
7.5°	642.3	642.3	642.3	636.8	620.4	614.9	603.9	587.4	571.0	554.5	532.5
10°	680.8	680.8	675.3	669.8	653.3	647.8	636.8	614.9	587.4	560.0	532.5
12.5°	730.2	724.7	719.2	713.7	697.2	686.3	669.8	647.8	614.9	581.9	549.0
15°	790.6	779.6	779.6	768.6	752.1	735.7	724.7	691.7	658.8	614.9	571.0
17.5°	856.4	851.0	845.5	834.5	818.0	807.0	790.6	752.1	708.2	653.3	603.9
20°	938.8	927.8	933.3	916.8	900.4	894.9	867.4	823.5	768.6	708.2	647.8
22.5°	1037.6	1026.6	1026.6	1010.2	999.2	988.2	960.8	911.4	840.0	774.1	697.2
25°	1147.4	1136.4	1136.4	1125.5	1114.5	1103.5	1070.6	1015.7	933.3	851.0	763.1
27.5°	1268.2	1257.2	1257.2	1251.7	1224.3	1207.8	1180.4	1120.0	1037.6	933.3	829.0
30°	1394.5	1383.5	1394.5	1383.5	1367.0	1334.1	1301.1	1235.3	1141.9	1026.6	900.4
32.5°	1493.3	1493.3	1498.8	1509.8	1498.8	1471.3	1432.9	1378.0	1251.7	1109.0	966.3
35°	1608.6	1608.6	1619.6	1636.0	1630.5	1603.1	1564.7	1504.3	1372.5	1202.3	1037.6
37.5°	1734.9	1734.9	1745.8	1773.3	1762.3	1745.8	1718.4	1641.5	1493.3	1295.7	1114.5
40°	1872.1	1866.6	1877.6	1916.0	1921.5	1899.6	1866.6	1789.8	1619.6	1416.4	1196.8
42.5°	2009.4	2003.9	2025.8	2064.3	2069.8	2064.3	2031.3	1943.5	1751.3	1537.2	1279.2
45°	2146.6	2146.6	2179.6	2239.9	2267.4	2256.4	2229.0	2119.2	1916.0	1663.5	1389.0
47.5°	2289.4	2289.4	2333.3	2410.1	2443.1	2437.6	2426.6	2294.8	2075.2	1795.3	1482.3
50°	2399.2	2399.2	2470.5	2558.4	2613.3	2635.2	2580.3	2459.5	2212.5	1910.5	1559.2
52.5°	2509.0	2509.0	2580.3	2717.6	2772.5	2805.4	2734.1	2607.8	2366.2	2014.9	1630.5
55°	2563.9	2574.8	2673.7	2805.4	2893.3	2876.8	2904.2	2734.1	2465.0	2091.7	1674.5
57.5°	2569.3	2585.8	2695.6	2832.9	2931.7	2926.2	2931.7	2778.0	2503.5	2108.2	1680.0
60°	2541.9	2569.3	2668.2	2805.4	2898.8	2942.7	2887.8	2750.5	2481.5	2091.7	1674.5
62.5°	2476.0	2530.9	2635.2	2739.5	2876.8	2893.3	2849.3	2734.1	2421.1	2075.2	1647.0
65°	2327.8	2388.2	2536.4	2657.2	2767.0	2789.0	2739.5	2640.7	2360.7	1998.4	1559.2
67.5°	2179.6	2218.0	2344.3	2530.9	2607.8	2629.7	2613.3	2498.0	2256.4	1844.7	1454.9
70°	2009.4	2058.8	2157.6	2349.7	2426.6	2421.1	2470.5	2338.8	2097.2	1712.9	1345.1
72.5°	1778.8	1850.2	1949.0	2108.2	2201.5	2168.6	2245.4	2135.6	1888.6	1548.2	1196.8
75°	1509.8	1570.2	1696.4	1822.7	1927.0	1888.6	1949.0	1872.1	1647.0	1350.6	1026.6
77.5°	1207.8	1279.2	1394.5	1509.8	1581.1	1581.1	1608.6	1542.7	1367.0	1109.0	840.0
80°	894.9	960.8	1065.1	1147.4	1213.3	1218.8	1246.2	1213.3	1054.1	861.9	642.3
82.5°	592.9	625.9	719.2	785.1	851.0	845.5	889.4	867.4	735.7	592.9	428.2
85°	252.5	274.5	351.4	406.3	466.7	444.7	505.1	499.6	395.3	285.5	192.2
87.5°	11.0	16.5	16.5	11.0	16.5	5.5	16.5	22.0	16.5	11.0	11.0
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°	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5
2.5°	532.5	527.0	516.1	510.6	505.1	494.1	494.1	488.6	488.6	488.6	483.1
5°	532.5	521.6	510.6	494.1	483.1	472.1	461.2	450.2	444.7	444.7	439.2
7.5°	521.6	510.6	494.1	477.6	461.2	439.2	428.2	406.3	400.8	395.3	395.3
10°	521.6	510.6	483.1	461.2	439.2	417.2	400.8	378.8	362.3	356.9	356.9
12.5°	527.0	510.6	483.1	455.7	428.2	400.8	378.8	356.9	340.4	329.4	329.4
15°	549.0	527.0	494.1	455.7	422.7	389.8	367.8	340.4	323.9	312.9	312.9
17.5°	576.5	554.5	505.1	461.2	422.7	384.3	356.9	329.4	312.9	302.0	296.5
20°	614.9	581.9	527.0	466.7	422.7	384.3	351.4	323.9	302.0	291.0	291.0
22.5°	658.8	620.4	549.0	477.6	428.2	384.3	351.4	318.4	296.5	285.5	285.5
25°	713.7	664.3	581.9	499.6	439.2	389.8	351.4	318.4	296.5	285.5	285.5
27.5°	774.1	719.2	614.9	521.6	450.2	395.3	351.4	318.4	296.5	285.5	285.5
30°	829.0	768.6	647.8	543.5	466.7	400.8	356.9	323.9	302.0	291.0	285.5
32.5°	889.4	812.5	680.8	565.5	477.6	411.8	362.3	329.4	302.0	291.0	291.0
35°	949.8	867.4	713.7	592.9	494.1	422.7	367.8	334.9	307.4	296.5	296.5
37.5°	1015.7	927.8	752.1	614.9	510.6	433.7	378.8	340.4	312.9	302.0	302.0
40°	1092.5	988.2	790.6	642.3	527.0	444.7	384.3	351.4	323.9	312.9	312.9
42.5°	1163.9	1043.1	829.0	664.3	543.5	455.7	395.3	356.9	334.9	323.9	323.9
45°	1235.3	1109.0	867.4	691.7	560.0	472.1	406.3	373.3	345.9	334.9	334.9
47.5°	1317.6	1169.4	911.4	713.7	576.5	483.1	417.2	384.3	356.9	351.4	345.9
50°	1383.5	1213.3	938.8	735.7	587.4	494.1	428.2	389.8	367.8	356.9	356.9
52.5°	1443.9	1257.2	960.8	746.6	592.9	499.6	439.2	400.8	378.8	367.8	367.8
55°	1476.8	1273.7	977.2	746.6	598.4	505.1	439.2	400.8	378.8	373.3	367.8
57.5°	1476.8	1273.7	966.3	735.7	587.4	494.1	433.7	395.3	378.8	367.8	367.8
60°	1454.9	1257.2	938.8	713.7	571.0	477.6	422.7	384.3	367.8	362.3	362.3
62.5°	1421.9	1229.8	916.8	686.3	549.0	455.7	406.3	367.8	356.9	356.9	351.4
65°	1334.1	1147.4	867.4	647.8	516.1	428.2	384.3	351.4	340.4	334.9	329.4
67.5°	1240.8	1070.6	790.6	603.9	472.1	400.8	356.9	329.4	312.9	312.9	307.4
70°	1147.4	988.2	719.2	543.5	422.7	367.8	323.9	296.5	285.5	285.5	285.5
72.5°	1021.2	883.9	636.8	477.6	373.3	323.9	291.0	263.5	258.0	258.0	252.5
75°	872.9	752.1	538.0	406.3	312.9	274.5	247.1	219.6	219.6	219.6	219.6
77.5°	713.7	609.4	428.2	323.9	247.1	219.6	203.1	181.2	181.2	181.2	181.2
80°	538.0	450.2	312.9	236.1	181.2	159.2	148.2	137.3	142.7	142.7	137.3
82.5°	351.4	296.5	197.6	148.2	115.3	104.3	104.3	93.3	98.8	98.8	98.8
85°	153.7	131.8	82.4	65.9	54.9	54.9	54.9	49.4	54.9	54.9	54.9
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	0.0	5.5	11.0	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

(END OF REPORT)