

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: P832626

Luminaire Tested: **TTN-D2-740-U-DL-CG**

Issue Date: 5/14/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832626  
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-D2-740-U-DL-CG  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
4000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

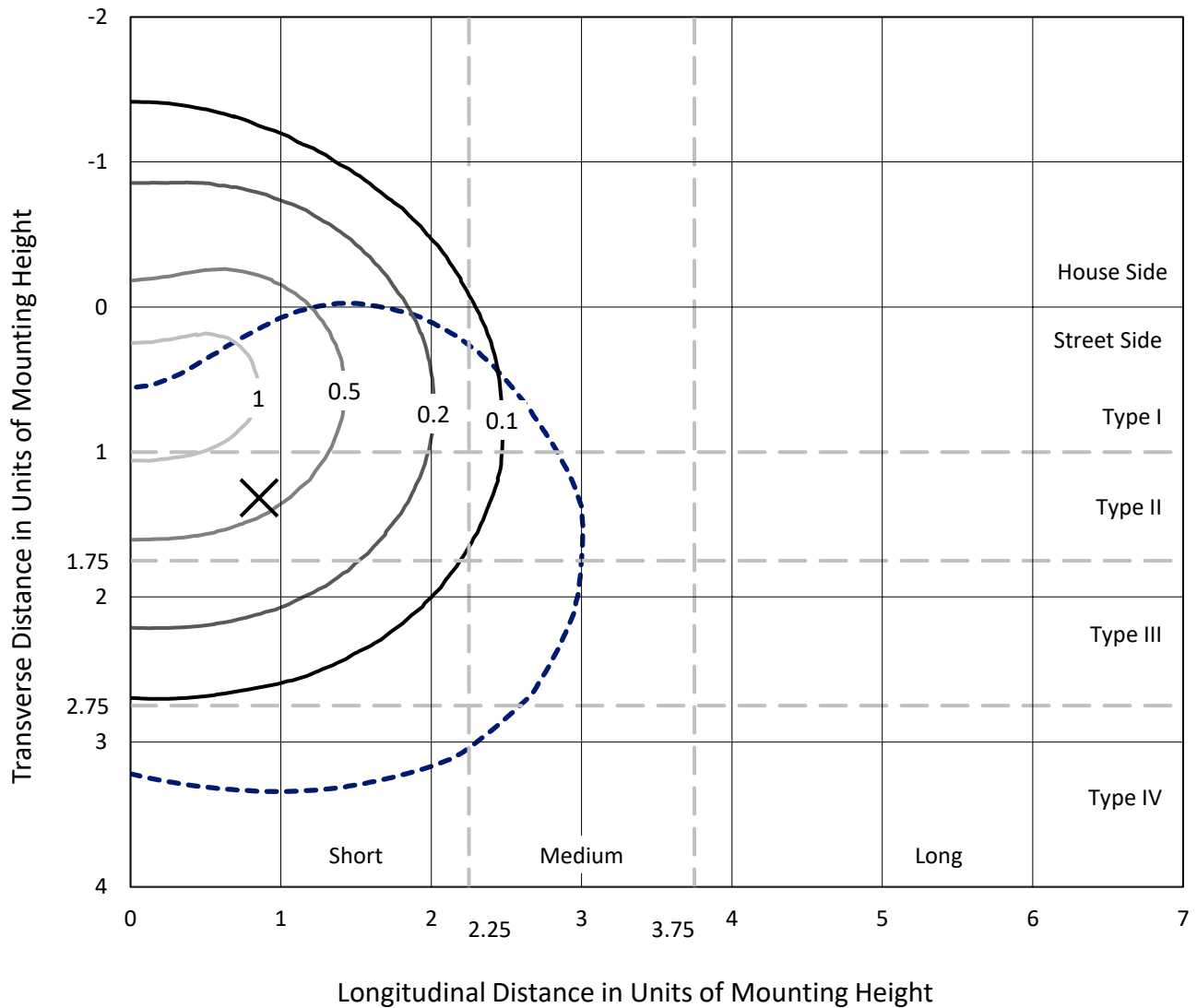
Lumens per Lamp: N/A  
Luminaire Lumens: 4968 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 42.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

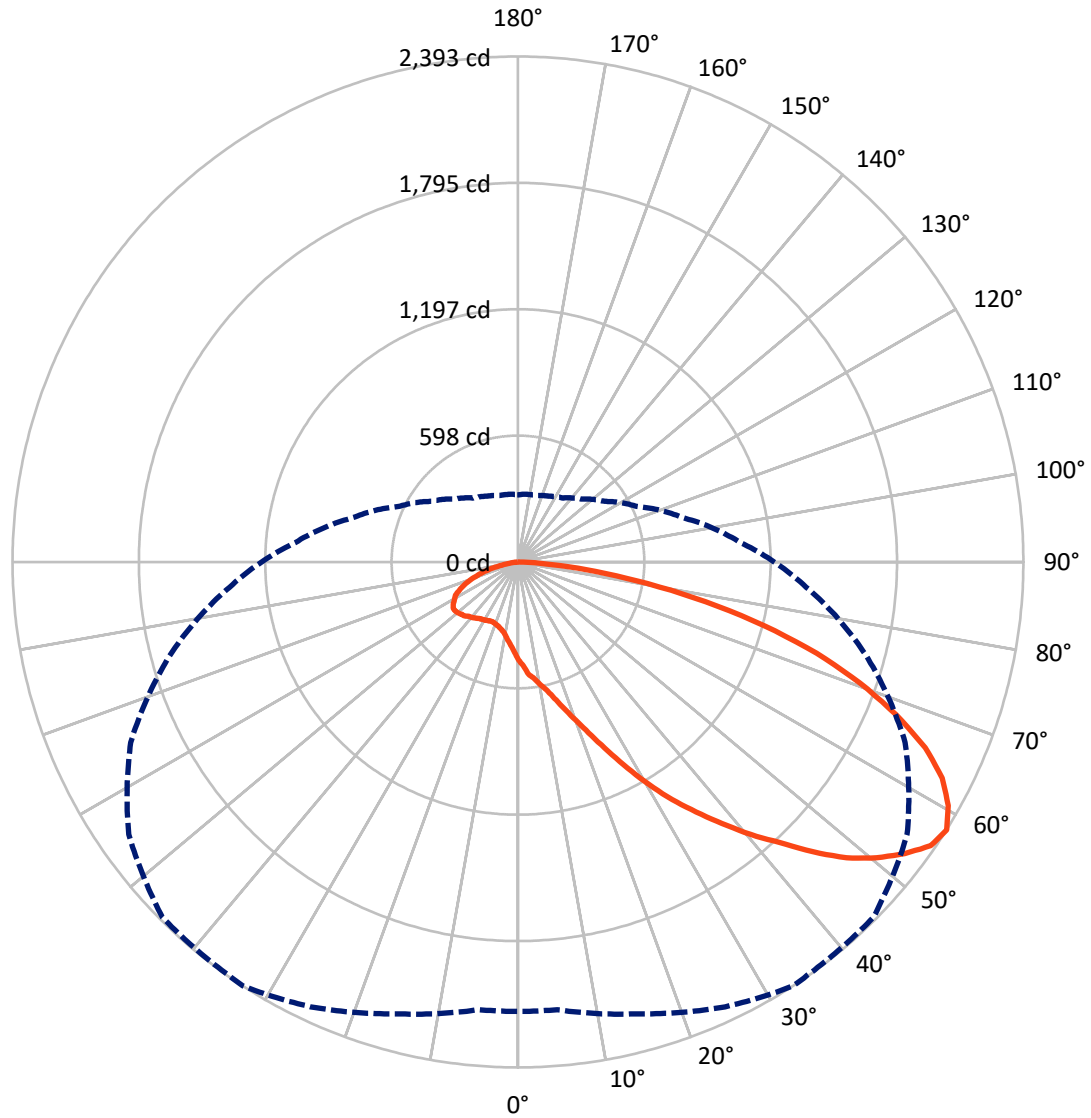
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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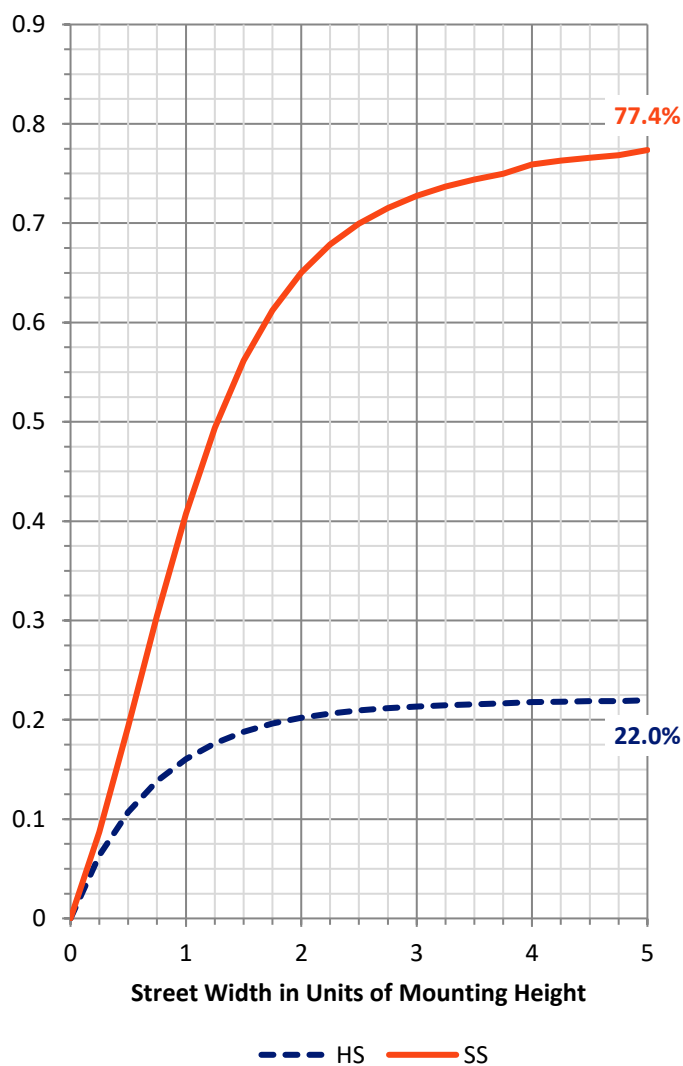
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1096.3	0.0	1096.3
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	3871.8	0.0	3871.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	4968.0	0.0	4968.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	0.9
10°-20°	144.5	2.9
20°-30°	304.6	6.1
30°-40°	553.2	11.1
40°-50°	874.2	17.6
50°-60°	1161.0	23.4
60°-70°	1117.4	22.5
70°-80°	655.9	13.2
80°-90°	112.6	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°	4968.0	100.0
0°-180°	4968.0	100.0

**Coefficient of Utilization**



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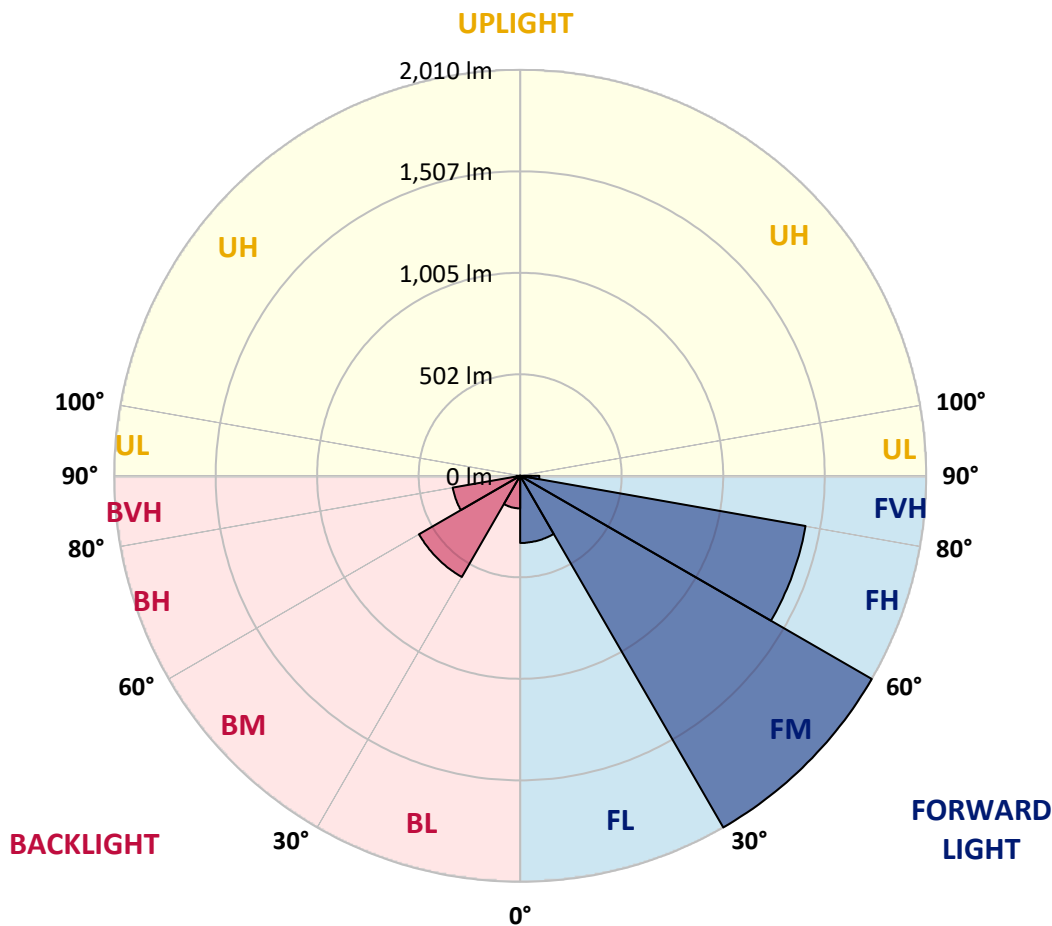
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.4	6.7			
FM (30°-60°)	2009.9	40.5			
FH (60°-80°)	1434.4	28.9			G1/1800
FVH (80°-90°)	95.1	1.9			G1/100
BL (0°-30°)	161.3	3.2	B1/500		
BM (30°-60°)	578.5	11.6	B1/1000		
BH (60°-80°)	339.0	6.8	B1/500		G1/500
BVH (80°-90°)	17.5	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6
2.5°	496.1	500.4	496.1	496.1	491.7	491.7	487.4	483.0	478.7	474.3	465.6
5°	552.7	552.7	548.3	539.6	535.2	530.9	522.2	509.1	500.4	487.4	474.3
7.5°	578.8	578.8	574.4	565.7	557.0	552.7	539.6	522.2	509.1	491.7	474.3
10°	613.6	617.9	609.2	600.5	591.8	587.5	570.1	548.3	526.5	504.8	478.7
12.5°	652.7	657.1	652.7	639.7	626.6	622.3	604.9	578.8	552.7	522.2	491.7
15°	705.0	713.7	700.6	691.9	678.9	674.5	652.7	622.3	591.8	552.7	513.5
17.5°	765.9	770.2	761.5	748.5	739.8	735.4	713.7	678.9	635.3	591.8	544.0
20°	835.5	839.9	835.5	818.1	809.4	805.0	783.3	744.1	691.9	644.0	583.1
22.5°	918.2	926.9	913.8	900.8	892.1	892.1	866.0	822.5	761.5	700.6	631.0
25°	1013.9	1027.0	1009.6	1000.9	992.2	987.8	966.1	913.8	844.2	770.2	683.2
27.5°	1131.4	1140.1	1127.1	1122.7	1105.3	1105.3	1070.5	1009.6	935.6	848.6	748.5
30°	1235.9	1244.6	1235.9	1235.9	1222.8	1218.4	1183.6	1122.7	1031.3	926.9	805.0
32.5°	1335.9	1344.6	1340.3	1344.6	1340.3	1335.9	1292.4	1227.2	1135.8	1000.9	861.6
35°	1436.0	1449.1	1444.7	1457.8	1453.4	1449.1	1414.3	1335.9	1227.2	1092.3	922.5
37.5°	1540.5	1553.5	1553.5	1566.6	1570.9	1570.9	1531.8	1449.1	1327.2	1174.9	992.2
40°	1653.6	1666.7	1666.7	1688.4	1697.1	1697.1	1653.6	1570.9	1436.0	1266.3	1066.1
42.5°	1762.4	1775.5	1779.8	1801.6	1814.6	1819.0	1784.2	1688.4	1531.8	1357.7	1135.8
45°	1866.8	1879.9	1892.9	1936.5	1958.2	1953.9	1927.8	1827.7	1653.6	1453.4	1209.7
47.5°	1966.9	1984.3	2006.1	2062.7	2093.1	2088.8	2071.4	1958.2	1766.8	1544.8	1275.0
50°	2045.3	2058.3	2101.8	2162.7	2201.9	2206.3	2180.2	2071.4	1862.5	1614.4	1322.9
52.5°	2106.2	2123.6	2175.8	2262.8	2293.3	2306.4	2275.9	2167.1	1958.2	1675.4	1362.1
55°	2149.7	2149.7	2228.0	2328.1	2371.6	2380.3	2380.3	2245.4	2014.8	1714.5	1383.8
57.5°	2127.9	2127.9	2215.0	2323.8	2393.4	2389.0	2380.3	2249.8	2023.5	1705.8	1370.8
60°	2067.0	2080.1	2162.7	2271.5	2341.2	2336.8	2310.7	2193.2	1980.0	1671.0	1344.6
62.5°	1984.3	2006.1	2093.1	2175.8	2254.1	2267.2	2232.4	2127.9	1906.0	1618.8	1296.8
65°	1827.7	1858.1	1966.9	2058.3	2119.2	2145.3	2101.8	2006.1	1805.9	1518.7	1196.7
67.5°	1653.6	1675.4	1766.8	1897.3	1932.1	1958.2	1936.5	1836.4	1666.7	1357.7	1083.6
70°	1453.4	1488.2	1549.2	1679.7	1718.9	1745.0	1745.0	1644.9	1483.9	1192.3	948.7
72.5°	1218.4	1257.6	1331.6	1427.3	1479.5	1497.0	1492.6	1409.9	1266.3	1009.6	800.7
75°	961.7	992.2	1079.2	1148.8	1205.4	1218.4	1214.1	1144.5	1013.9	813.8	635.3
77.5°	709.3	739.8	805.0	857.3	909.5	900.8	900.8	848.6	765.9	604.9	483.0
80°	465.6	491.7	548.3	565.7	622.3	617.9	617.9	578.8	522.2	404.7	322.0
82.5°	256.7	278.5	317.7	335.1	369.9	361.2	365.5	339.4	304.6	226.3	182.8
85°	91.4	108.8	130.5	143.6	161.0	161.0	161.0	139.3	130.5	87.0	74.0
87.5°	4.4	8.7	17.4	17.4	26.1	26.1	26.1	17.4	17.4	4.4	4.4
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°	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6
2.5°	461.3	456.9	452.6	443.9	439.5	435.2	430.8	426.5	426.5	426.5	426.5
5°	465.6	461.3	448.2	435.2	422.1	409.1	400.3	396.0	391.6	387.3	387.3
7.5°	465.6	456.9	439.5	422.1	409.1	391.6	378.6	365.5	356.8	352.5	352.5
10°	470.0	456.9	435.2	417.8	396.0	374.2	356.8	339.4	330.7	322.0	322.0
12.5°	478.7	465.6	435.2	413.4	387.3	361.2	339.4	322.0	309.0	300.3	300.3
15°	496.1	478.7	443.9	413.4	382.9	352.5	330.7	309.0	295.9	287.2	287.2
17.5°	522.2	500.4	456.9	413.4	378.6	348.1	322.0	300.3	282.9	274.2	274.2
20°	552.7	526.5	474.3	422.1	378.6	343.8	317.7	291.6	274.2	265.4	265.4
22.5°	596.2	557.0	496.1	435.2	387.3	348.1	313.3	287.2	269.8	261.1	261.1
25°	644.0	600.5	522.2	452.6	396.0	348.1	313.3	287.2	269.8	261.1	256.7
27.5°	696.3	648.4	552.7	470.0	404.7	356.8	317.7	287.2	269.8	261.1	261.1
30°	744.1	687.6	583.1	491.7	417.8	361.2	322.0	291.6	269.8	261.1	261.1
32.5°	796.3	731.1	613.6	513.5	430.8	369.9	326.4	295.9	274.2	265.4	261.1
35°	848.6	774.6	644.0	530.9	443.9	378.6	330.7	300.3	278.5	269.8	269.8
37.5°	905.1	822.5	674.5	552.7	456.9	387.3	339.4	304.6	282.9	274.2	274.2
40°	966.1	870.3	705.0	570.1	470.0	396.0	348.1	313.3	291.6	282.9	282.9
42.5°	1027.0	922.5	739.8	591.8	483.0	404.7	352.5	322.0	300.3	291.6	291.6
45°	1087.9	966.1	770.2	613.6	496.1	417.8	365.5	330.7	309.0	300.3	300.3
47.5°	1144.5	1013.9	796.3	626.6	509.1	426.5	369.9	339.4	317.7	313.3	309.0
50°	1183.6	1044.4	813.8	639.7	513.5	430.8	378.6	343.8	326.4	317.7	317.7
52.5°	1214.1	1074.8	826.8	648.4	517.8	435.2	382.9	352.5	335.1	326.4	322.0
55°	1231.5	1079.2	826.8	639.7	513.5	435.2	382.9	352.5	335.1	326.4	326.4
57.5°	1214.1	1057.4	809.4	622.3	500.4	422.1	369.9	343.8	326.4	322.0	317.7
60°	1179.3	1022.6	774.6	596.2	478.7	400.3	352.5	330.7	317.7	313.3	309.0
62.5°	1131.4	979.1	739.8	561.4	448.2	374.2	339.4	313.3	304.6	300.3	295.9
65°	1035.7	896.4	683.2	517.8	409.1	343.8	309.0	291.6	282.9	274.2	269.8
67.5°	931.2	805.0	604.9	465.6	361.2	309.0	278.5	261.1	248.0	248.0	243.7
70°	818.1	709.3	522.2	396.0	313.3	269.8	239.3	226.3	217.6	217.6	213.2
72.5°	683.2	596.2	435.2	322.0	256.7	221.9	200.2	187.1	182.8	182.8	178.4
75°	548.3	470.0	343.8	252.4	200.2	174.1	156.7	148.0	143.6	143.6	139.3
77.5°	404.7	343.8	248.0	182.8	143.6	126.2	113.1	108.8	104.4	104.4	100.1
80°	269.8	226.3	161.0	117.5	87.0	78.3	69.6	69.6	65.3	69.6	65.3
82.5°	148.0	121.8	87.0	60.9	43.5	39.2	34.8	34.8	39.2	39.2	34.8
85°	56.6	43.5	30.5	17.4	13.1	13.1	13.1	13.1	13.1	13.1	8.7
87.5°	4.4	4.4	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)