

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: P833924

Luminaire Tested: **TTN-D3-740-U-MQ-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833924  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND  
Test Lab: INNOVATION CENTER  
Issue Date: 5/15/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TTN-D3-740-U-MQ-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

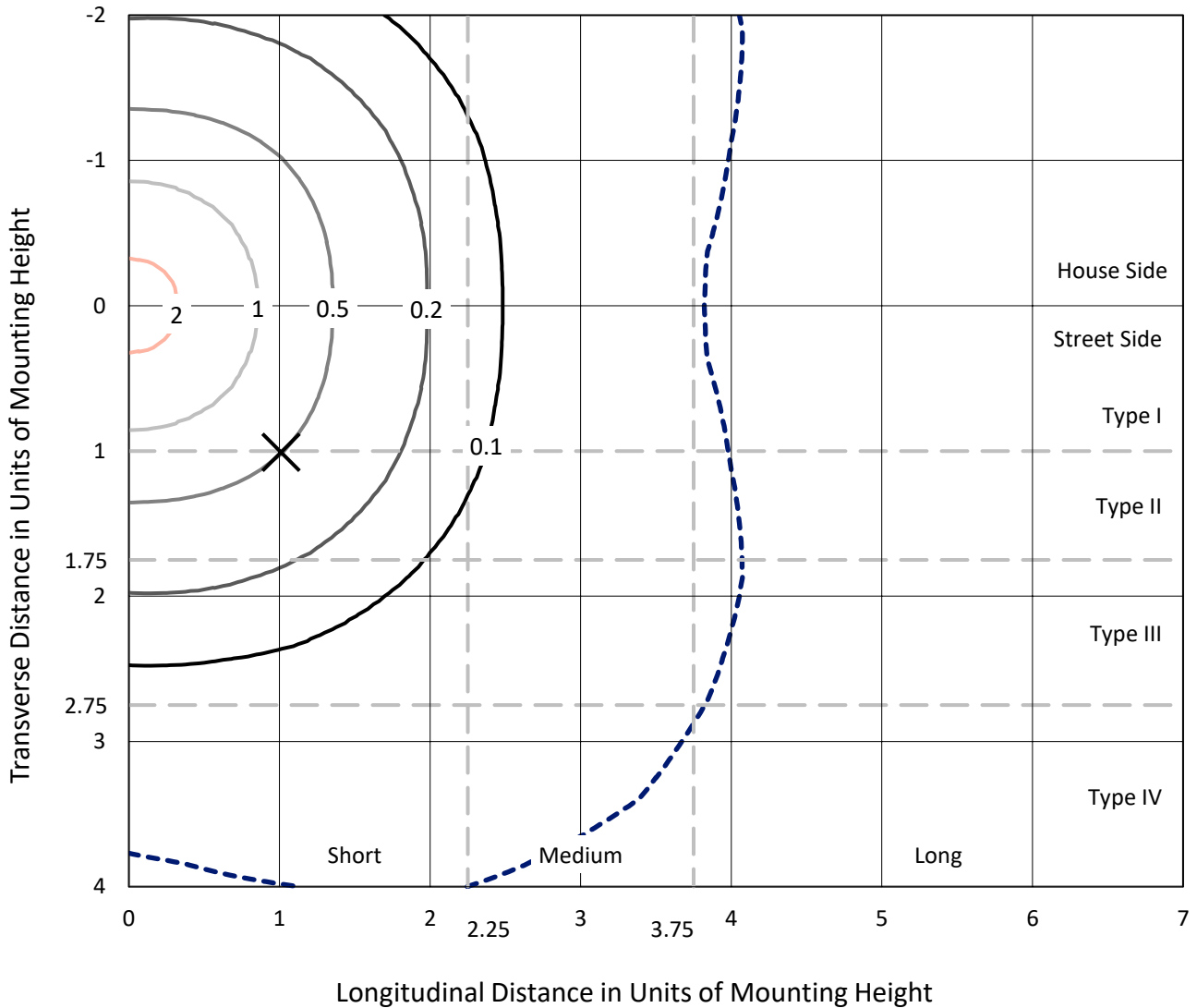
Lumens per Lamp: N/A  
Luminaire Lumens: 7962.7 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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

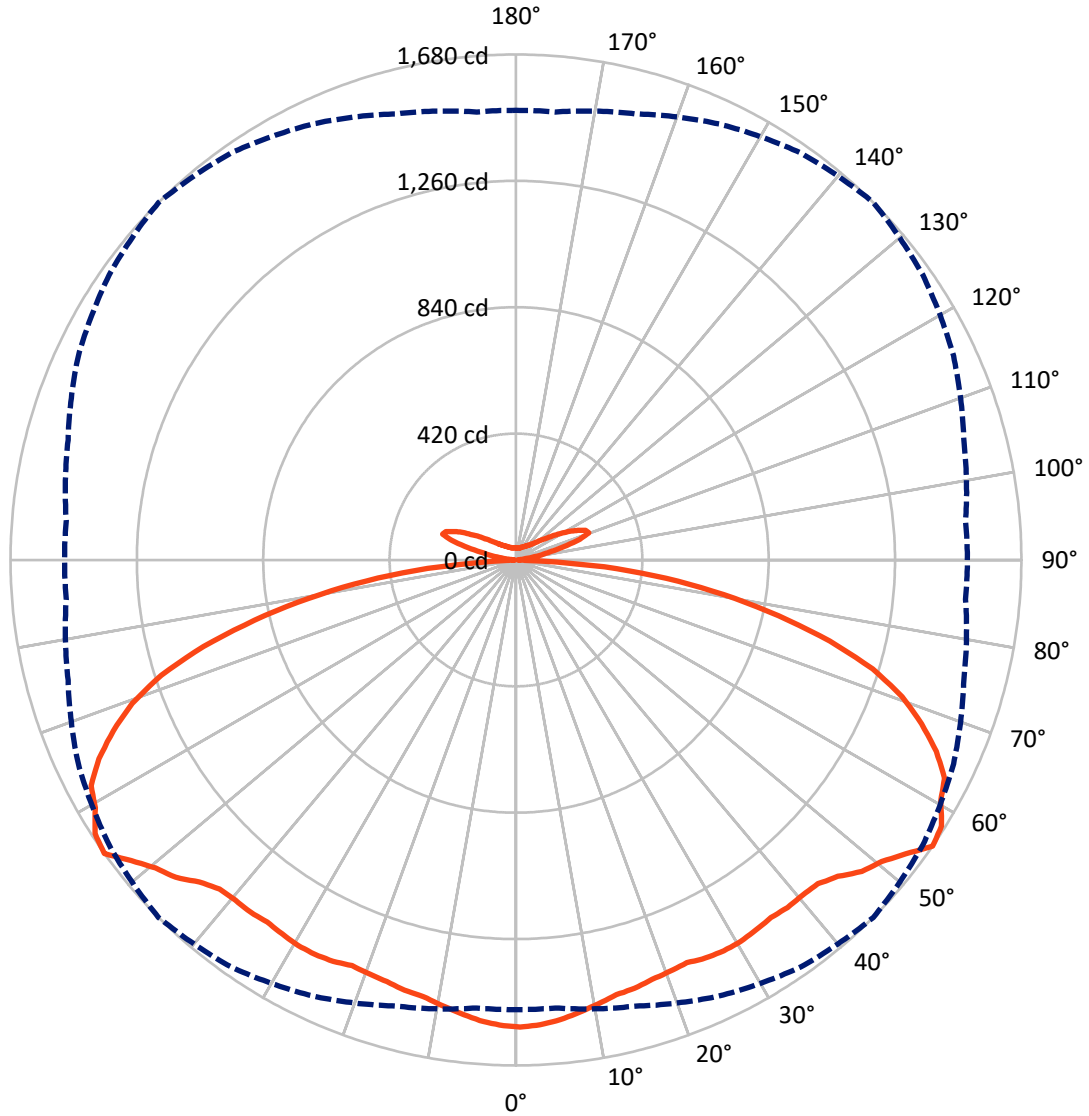
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

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CATALOG NUMBER: TTN-D3-740-U-MQ-UPL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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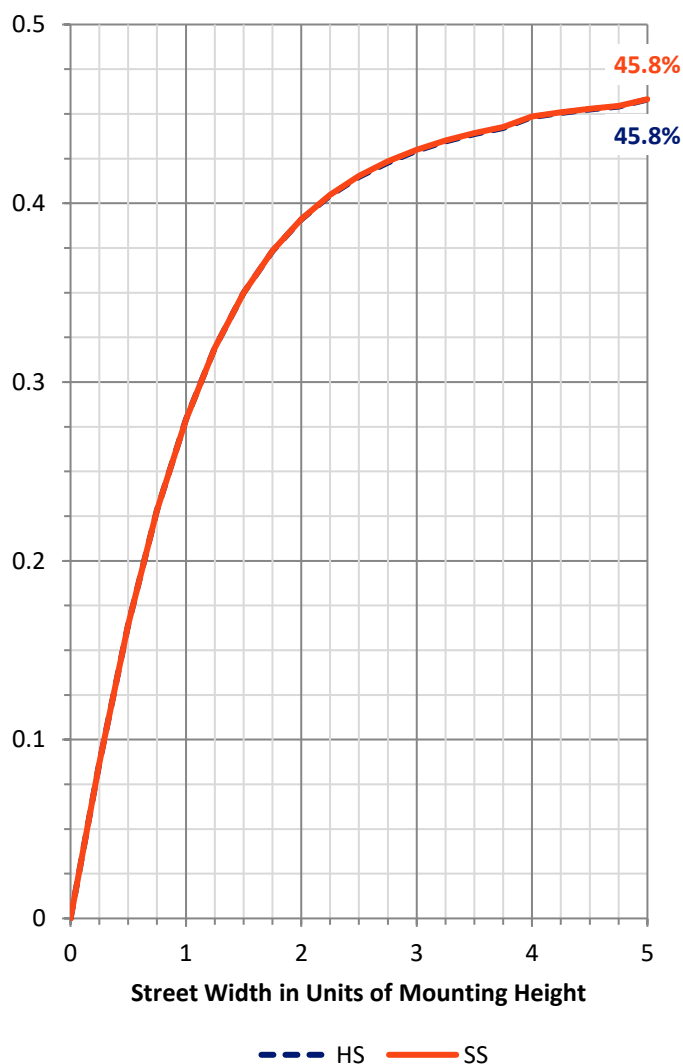
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3688.9	292.5	3981.3
	% Fixture	46.3	3.7	50.0
<b>Street Side</b>	Lumens	3688.9	292.5	3981.3
	% Fixture	46.3	3.7	50.0
<b>Total</b>	Lumens	7377.8	584.9	7962.7
	% Fixture	92.7	7.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	1.8
10°-20°	417.0	5.2
20°-30°	674.0	8.5
30°-40°	912.1	11.5
40°-50°	1142.4	14.3
50°-60°	1400.0	17.6
60°-70°	1403.4	17.6
70°-80°	1012.7	12.7
80°-90°	270.8	3.4
90°-100°	13.1	0.2
100°-110°	132.7	1.7
110°-120°	194.0	2.4
120°-130°	112.6	1.4
130°-140°	59.7	0.7
140°-150°	35.4	0.4
150°-160°	21.8	0.3
160°-170°	11.9	0.1
170°-180°	3.9	0.0
0°-90°	7377.8	92.7
0°-180°	7962.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P833924

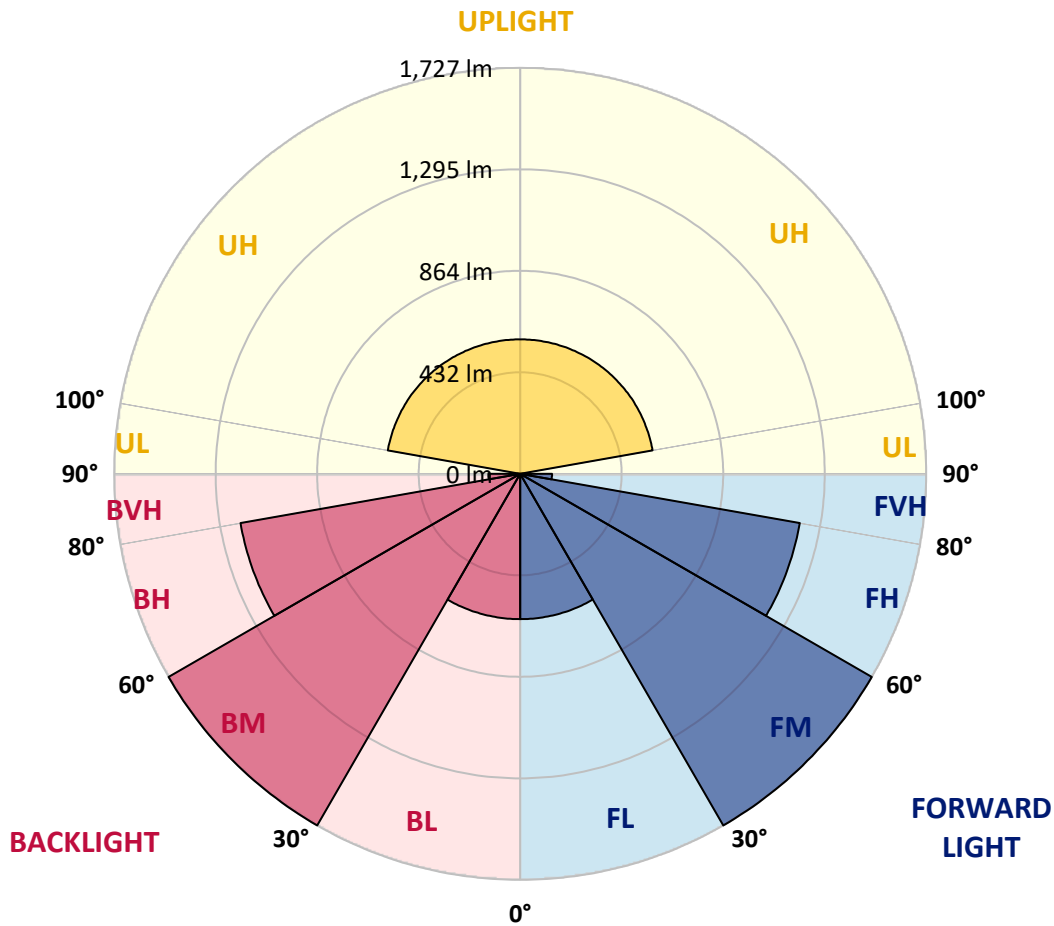
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.2	7.8			
FM (30°-60°)	1727.2	21.7			
FH (60°-80°)	1208.1	15.2			G1/1800
FVH (80°-90°)	135.4	1.7			G2/225
BL (0°-30°)	618.2	7.8	B2/1000		
BM (30°-60°)	1727.2	21.7	B2/2500		
BH (60°-80°)	1208.1	15.2	B3/2500		G1/1800
BVH (80°-90°)	135.4	1.7			G2/225
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	7.2		U4/1000	

**BUG Rating: B3-U4-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1	1552.1
2.5°	1546.3	1546.3	1546.3	1540.5	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3	1546.3
5°	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7	1534.7
7.5°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
10°	1494.2	1494.2	1494.2	1494.2	1499.9	1499.9	1499.9	1499.9	1494.2	1494.2	1494.2
12.5°	1476.8	1476.8	1476.8	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1482.6	1476.8
15°	1471.0	1471.0	1471.0	1471.0	1476.8	1476.8	1476.8	1476.8	1471.0	1471.0	1471.0
17.5°	1459.4	1459.4	1459.4	1465.2	1465.2	1465.2	1465.2	1465.2	1459.4	1459.4	1459.4
20°	1447.8	1447.8	1453.6	1453.6	1459.4	1459.4	1459.4	1453.6	1453.6	1447.8	1453.6
22.5°	1447.8	1447.8	1447.8	1453.6	1453.6	1453.6	1453.6	1447.8	1447.8	1447.8	1447.8
25°	1447.8	1447.8	1453.6	1459.4	1459.4	1465.2	1459.4	1453.6	1447.8	1447.8	1447.8
27.5°	1453.6	1453.6	1459.4	1465.2	1465.2	1471.0	1465.2	1459.4	1453.6	1453.6	1453.6
30°	1453.6	1453.6	1459.4	1465.2	1465.2	1471.0	1465.2	1459.4	1453.6	1453.6	1453.6
32.5°	1442.0	1447.8	1453.6	1459.4	1465.2	1465.2	1465.2	1459.4	1453.6	1447.8	1447.8
35°	1436.2	1442.0	1447.8	1453.6	1459.4	1459.4	1459.4	1453.6	1447.8	1442.0	1442.0
37.5°	1430.4	1430.4	1442.0	1447.8	1453.6	1465.2	1459.4	1447.8	1442.0	1436.2	1436.2
40°	1424.7	1430.4	1436.2	1447.8	1453.6	1465.2	1459.4	1447.8	1436.2	1430.4	1430.4
42.5°	1424.7	1424.7	1436.2	1447.8	1459.4	1471.0	1465.2	1453.6	1436.2	1430.4	1424.7
45°	1430.4	1436.2	1453.6	1476.8	1488.4	1499.9	1494.2	1476.8	1447.8	1436.2	1430.4
47.5°	1453.6	1459.4	1476.8	1499.9	1528.9	1546.3	1528.9	1499.9	1476.8	1459.4	1453.6
50°	1465.2	1471.0	1499.9	1528.9	1569.4	1575.2	1569.4	1528.9	1499.9	1471.0	1471.0
52.5°	1488.4	1488.4	1523.1	1575.2	1610.0	1621.6	1610.0	1581.0	1523.1	1494.2	1488.4
55°	1494.2	1494.2	1534.7	1598.4	1650.5	1679.5	1650.5	1604.2	1540.5	1499.9	1499.9
57.5°	1459.4	1471.0	1523.1	1586.8	1650.5	1667.9	1650.5	1592.6	1528.9	1476.8	1471.0
60°	1418.9	1436.2	1482.6	1557.9	1604.2	1621.6	1610.0	1557.9	1488.4	1436.2	1430.4
62.5°	1378.3	1401.5	1453.6	1511.5	1581.0	1598.4	1581.0	1511.5	1453.6	1401.5	1378.3
65°	1291.5	1314.6	1389.9	1459.4	1523.1	1534.7	1528.9	1459.4	1389.9	1314.6	1303.0
67.5°	1204.6	1222.0	1274.1	1384.1	1436.2	1453.6	1442.0	1378.3	1279.9	1222.0	1216.2
70°	1111.9	1129.3	1175.6	1279.9	1332.0	1361.0	1337.8	1279.9	1175.6	1129.3	1123.5
72.5°	990.3	1013.5	1065.6	1158.3	1210.4	1239.3	1216.2	1158.3	1065.6	1007.7	996.1
75°	845.5	862.9	926.6	1001.9	1054.0	1077.2	1059.8	1007.7	926.6	862.9	857.1
77.5°	689.2	706.5	764.4	839.7	868.7	891.9	874.5	833.9	764.4	706.5	700.7
80°	521.2	538.6	590.7	648.6	677.6	700.7	683.4	642.8	590.7	538.6	532.8
82.5°	341.7	359.1	405.4	451.7	480.7	503.8	486.5	445.9	411.2	359.1	353.3
85°	144.8	162.2	202.7	249.0	272.2	295.4	278.0	243.2	202.7	167.9	162.2
87.5°	11.6	17.4	17.4	23.2	17.4	29.0	17.4	17.4	17.4	17.4	17.4
90°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
92.5°	5.0	5.0	5.0	7.0	8.0	7.0	8.0	6.0	6.0	5.0	5.0
95°	6.0	6.0	7.0	9.0	11.0	12.0	12.0	7.0	7.0	6.0	6.0
97.5°	8.0	9.0	9.0	11.0	18.0	33.0	20.0	10.0	10.0	9.0	8.0
100°	13.0	14.0	14.0	25.0	53.0	71.1	51.0	26.0	19.0	14.0	14.0
102.5°	42.0	44.0	54.0	81.1	120.1	109.1	92.1	87.1	60.0	48.0	46.0
105°	107.1	106.1	114.1	135.1	168.1	165.1	152.1	138.1	119.1	110.1	110.1
107.5°	141.1	141.1	148.1	166.1	191.1	223.2	226.2	179.1	157.1	147.1	146.1
110°	159.1	159.1	165.1	180.1	213.2	258.2	256.2	221.2	194.1	181.1	179.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	164.1	172.1	195.1	231.2	251.2	242.2	228.2	216.2	206.2	204.2
115°	169.1	169.1	178.1	200.2	220.2	228.2	218.2	207.2	199.2	195.1	197.1
117.5°	167.1	170.1	172.1	184.1	197.1	203.2	198.1	183.1	177.1	175.1	172.1
120°	155.1	155.1	157.1	163.1	170.1	173.1	171.1	161.1	156.1	155.1	153.1
122.5°	138.1	139.1	138.1	141.1	146.1	149.1	147.1	139.1	137.1	137.1	135.1
125°	121.1	121.1	120.1	122.1	125.1	124.1	125.1	121.1	120.1	120.1	119.1
127.5°	109.1	108.1	106.1	107.1	108.1	108.1	109.1	105.1	106.1	107.1	106.1
130°	97.1	97.1	95.1	95.1	95.1	93.1	95.1	93.1	94.1	95.1	96.1
132.5°	86.1	86.1	83.1	82.1	82.1	82.1	83.1	82.1	84.1	86.1	86.1
135°	77.1	77.1	74.1	75.1	75.1	74.1	75.1	74.1	76.1	77.1	77.1
137.5°	70.1	70.1	68.1	68.1	68.1	67.1	68.1	68.1	69.1	71.1	72.1
140°	64.0	64.0	63.0	63.0	62.0	63.0	63.0	63.0	64.0	65.0	65.0
142.5°	61.0	60.0	59.0	58.0	59.0	59.0	59.0	58.0	59.0	61.0	61.0
145°	56.0	56.0	55.0	55.0	55.0	56.0	55.0	55.0	56.0	56.0	57.0
147.5°	53.0	53.0	52.0	53.0	53.0	53.0	53.0	52.0	53.0	53.0	54.0
150°	52.0	51.0	50.0	51.0	51.0	50.0	50.0	50.0	50.0	51.0	51.0
152.5°	49.0	49.0	48.0	49.0	48.0	48.0	48.0	48.0	48.0	49.0	50.0
155°	47.0	47.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
157.5°	45.0	46.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.0
160°	44.0	44.0	44.0	44.0	43.0	43.0	43.0	44.0	44.0	44.0	45.0
162.5°	43.0	43.0	43.0	43.0	42.0	42.0	42.0	42.0	43.0	43.0	44.0
165°	43.0	42.0	42.0	42.0	41.0	41.0	41.0	41.0	42.0	43.0	42.0
167.5°	41.0	41.0	41.0	41.0	41.0	40.0	40.0	41.0	41.0	41.0	42.0
170°	41.0	41.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.0
172.5°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	40.0	40.0	41.0	41.0
175°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	41.0	41.0	41.0	40.0
177.5°	41.0	41.0	41.0	41.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)