

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: P832571

Luminaire Tested: **TTN-D1-750-U-DL-CG**

Issue Date: 5/14/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832571  
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-D1-750-U-DL-CG  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE  
5000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

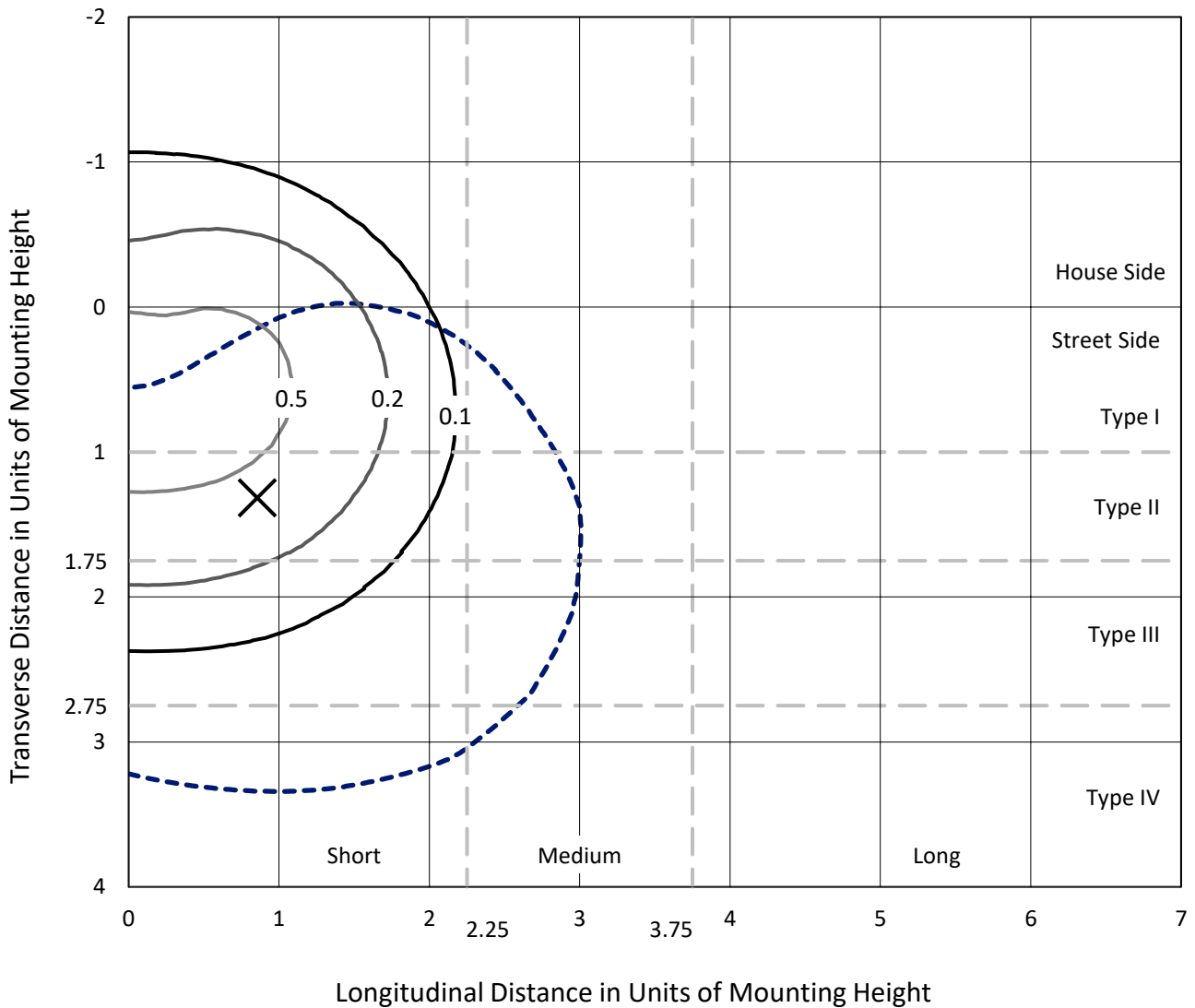
Lumens per Lamp: N/A  
Luminaire Lumens: 3159 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 26.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

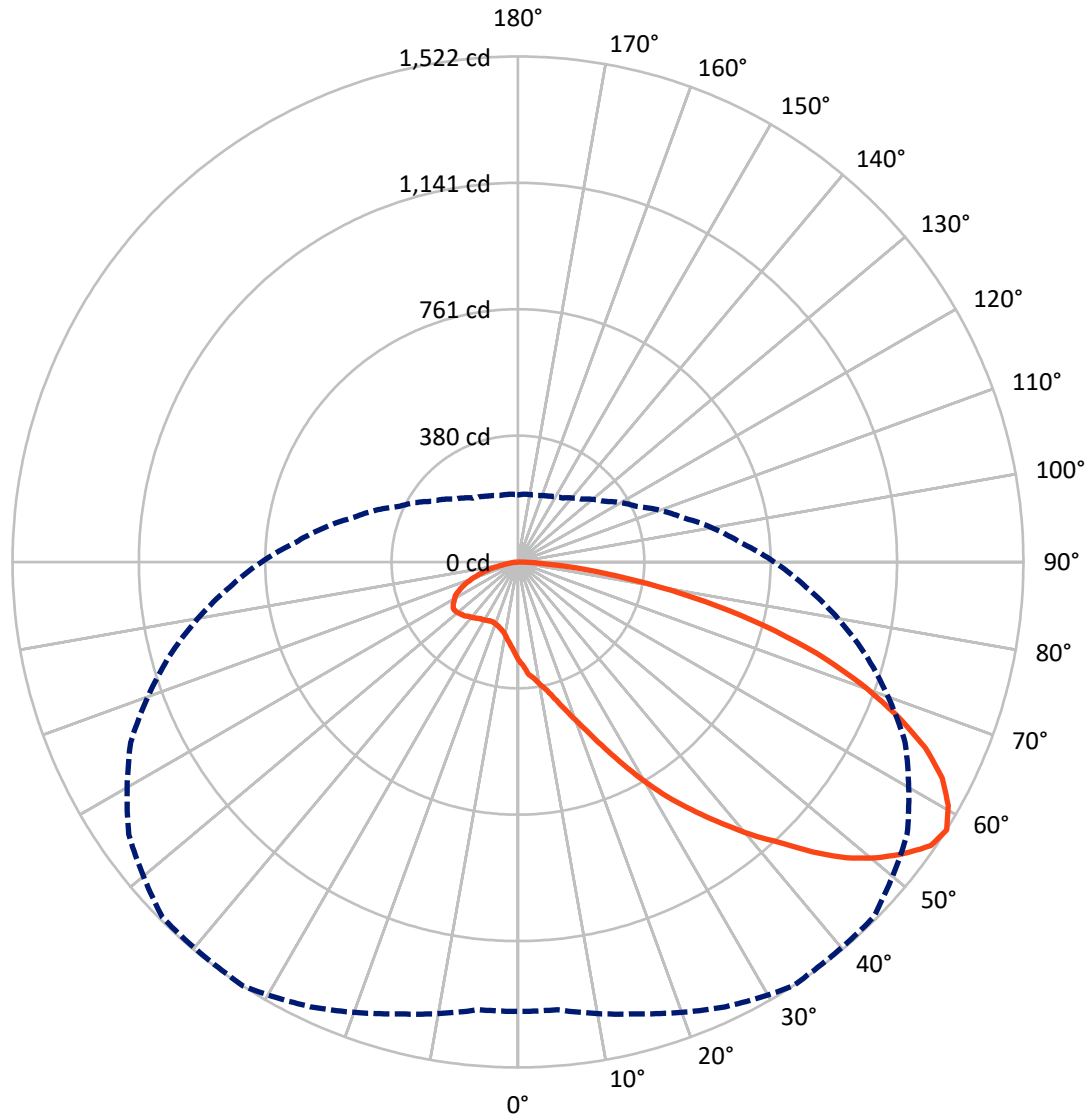
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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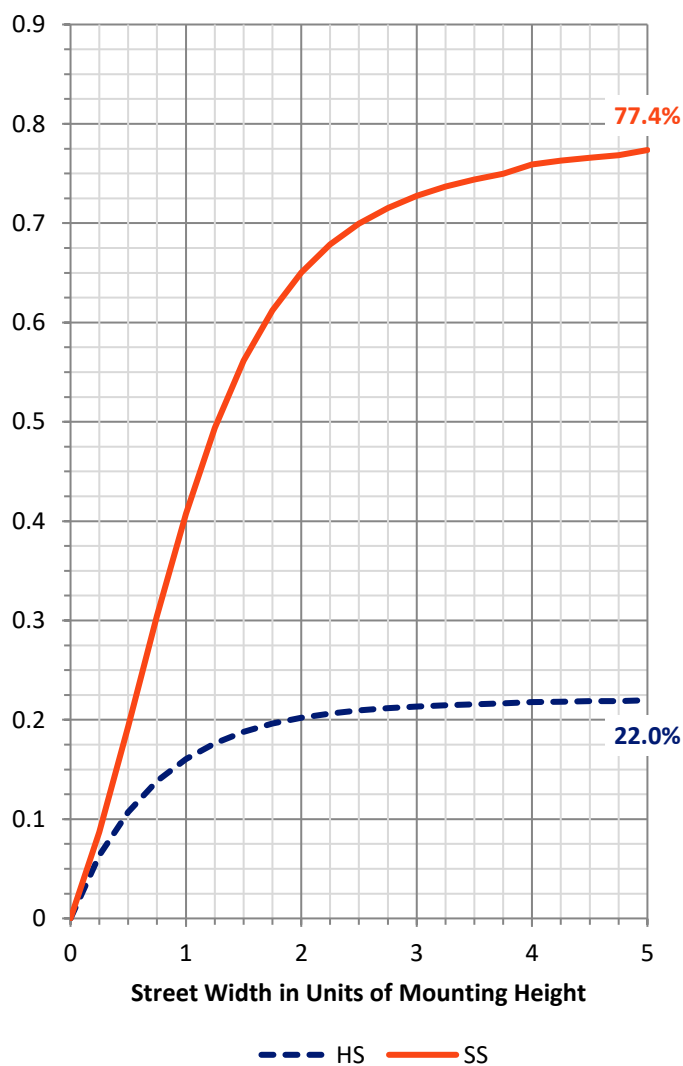
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	697.1	0.0	697.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	2461.9	0.0	2461.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	3159.0	0.0	3159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.3	0.9
10°-20°	91.9	2.9
20°-30°	193.7	6.1
30°-40°	351.8	11.1
40°-50°	555.9	17.6
50°-60°	738.2	23.4
60°-70°	710.5	22.5
70°-80°	417.1	13.2
80°-90°	71.6	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°	3159.0	100.0
0°-180°	3159.0	100.0

**Coefficient of Utilization**



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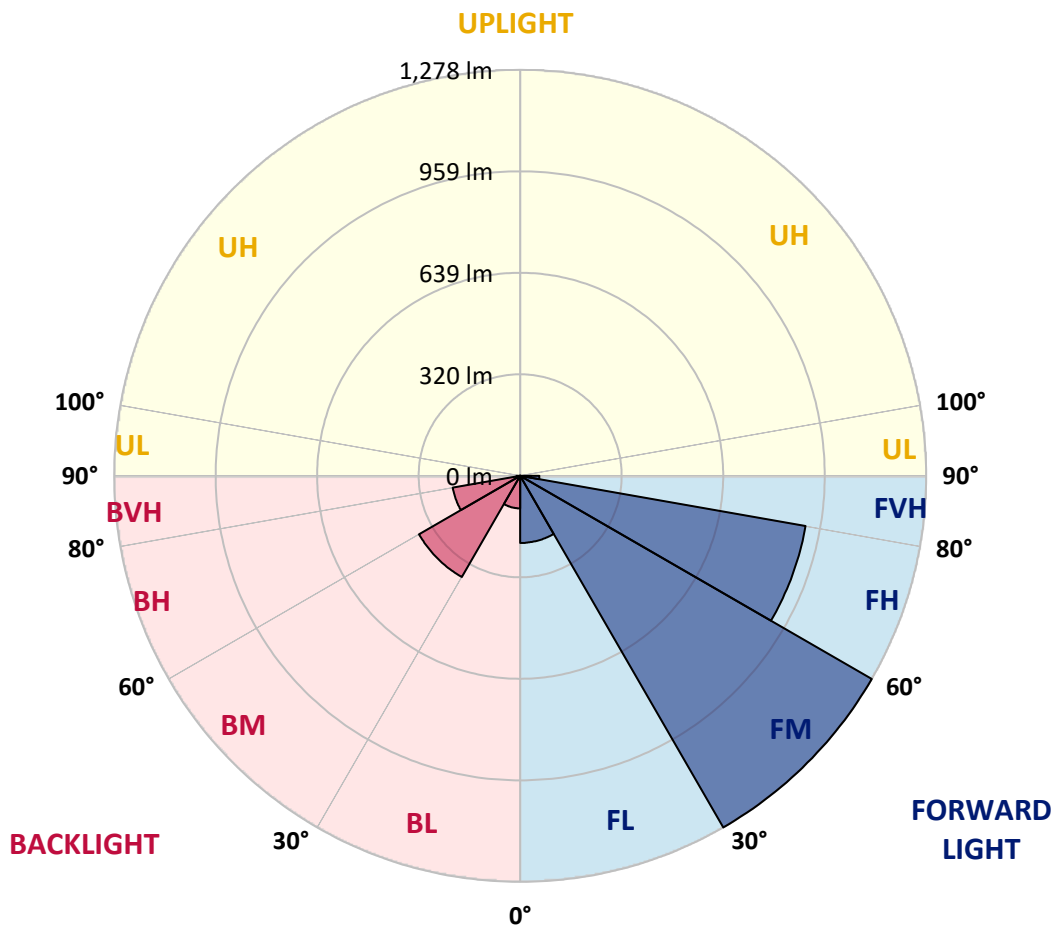
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.3	6.7			
FM (30°-60°)	1278.0	40.5			
FH (60°-80°)	912.1	28.9			G1/1800
FVH (80°-90°)	60.5	1.9			G1/100
BL (0°-30°)	102.6	3.2	B0/110		
BM (30°-60°)	367.8	11.6	B1/1000		
BH (60°-80°)	215.6	6.8	B1/500		G1/500
BVH (80°-90°)	11.1	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1
2.5°	315.4	318.2	315.4	315.4	312.7	312.7	309.9	307.1	304.4	301.6	296.1
5°	351.4	351.4	348.6	343.1	340.3	337.6	332.0	323.7	318.2	309.9	301.6
7.5°	368.0	368.0	365.3	359.7	354.2	351.4	343.1	332.0	323.7	312.7	301.6
10°	390.2	392.9	387.4	381.9	376.3	373.6	362.5	348.6	334.8	321.0	304.4
12.5°	415.1	417.8	415.1	406.8	398.5	395.7	384.6	368.0	351.4	332.0	312.7
15°	448.3	453.8	445.5	440.0	431.7	428.9	415.1	395.7	376.3	351.4	326.5
17.5°	487.0	489.8	484.2	475.9	470.4	467.6	453.8	431.7	404.0	376.3	345.9
20°	531.3	534.0	531.3	520.2	514.7	511.9	498.1	473.2	440.0	409.5	370.8
22.5°	583.8	589.4	581.1	572.8	567.2	567.2	550.6	523.0	484.2	445.5	401.2
25°	644.7	653.0	642.0	636.4	630.9	628.1	614.3	581.1	536.8	489.8	434.4
27.5°	719.4	725.0	716.7	713.9	702.8	702.8	680.7	642.0	594.9	539.6	475.9
30°	785.8	791.4	785.8	785.8	777.5	774.8	752.6	713.9	655.8	589.4	511.9
32.5°	849.5	855.0	852.3	855.0	852.3	849.5	821.8	780.3	722.2	636.4	547.9
35°	913.1	921.4	918.7	927.0	924.2	921.4	899.3	849.5	780.3	694.5	586.6
37.5°	979.5	987.8	987.8	996.1	998.9	998.9	974.0	921.4	844.0	747.1	630.9
40°	1051.5	1059.8	1059.8	1073.6	1079.2	1079.2	1051.5	998.9	913.1	805.2	677.9
42.5°	1120.7	1129.0	1131.7	1145.6	1153.9	1156.6	1134.5	1073.6	974.0	863.3	722.2
45°	1187.1	1195.4	1203.7	1231.3	1245.2	1242.4	1225.8	1162.2	1051.5	924.2	769.2
47.5°	1250.7	1261.8	1275.6	1311.6	1331.0	1328.2	1317.1	1245.2	1123.4	982.3	810.7
50°	1300.5	1308.8	1336.5	1375.2	1400.1	1402.9	1386.3	1317.1	1184.3	1026.6	841.2
52.5°	1339.3	1350.3	1383.5	1438.9	1458.2	1466.5	1447.2	1378.0	1245.2	1065.3	866.1
55°	1366.9	1366.9	1416.7	1480.4	1508.0	1513.6	1513.6	1427.8	1281.1	1090.2	879.9
57.5°	1353.1	1353.1	1408.4	1477.6	1521.9	1519.1	1513.6	1430.6	1286.7	1084.7	871.6
60°	1314.4	1322.7	1375.2	1444.4	1488.7	1485.9	1469.3	1394.6	1259.0	1062.5	855.0
62.5°	1261.8	1275.6	1331.0	1383.5	1433.3	1441.6	1419.5	1353.1	1212.0	1029.3	824.6
65°	1162.2	1181.5	1250.7	1308.8	1347.6	1364.2	1336.5	1275.6	1148.3	965.7	760.9
67.5°	1051.5	1065.3	1123.4	1206.4	1228.6	1245.2	1231.3	1167.7	1059.8	863.3	689.0
70°	924.2	946.3	985.1	1068.1	1093.0	1109.6	1109.6	1045.9	943.6	758.2	603.2
72.5°	774.8	799.7	846.7	907.6	940.8	951.9	949.1	896.5	805.2	642.0	509.1
75°	611.5	630.9	686.2	730.5	766.5	774.8	772.0	727.7	644.7	517.4	404.0
77.5°	451.0	470.4	511.9	545.1	578.3	572.8	572.8	539.6	487.0	384.6	307.1
80°	296.1	312.7	348.6	359.7	395.7	392.9	392.9	368.0	332.0	257.3	204.8
82.5°	163.3	177.1	202.0	213.1	235.2	229.7	232.4	215.8	193.7	143.9	116.2
85°	58.1	69.2	83.0	91.3	102.4	102.4	102.4	88.5	83.0	55.3	47.0
87.5°	2.8	5.5	11.1	11.1	16.6	16.6	16.6	11.1	11.1	2.8	2.8
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°	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1	296.1
2.5°	293.3	290.5	287.8	282.2	279.5	276.7	273.9	271.2	271.2	271.2	271.2
5°	296.1	293.3	285.0	276.7	268.4	260.1	254.6	251.8	249.0	246.3	246.3
7.5°	296.1	290.5	279.5	268.4	260.1	249.0	240.7	232.4	226.9	224.1	224.1
10°	298.8	290.5	276.7	265.6	251.8	238.0	226.9	215.8	210.3	204.8	204.8
12.5°	304.4	296.1	276.7	262.9	246.3	229.7	215.8	204.8	196.5	190.9	190.9
15°	315.4	304.4	282.2	262.9	243.5	224.1	210.3	196.5	188.2	182.6	182.6
17.5°	332.0	318.2	290.5	262.9	240.7	221.4	204.8	190.9	179.9	174.3	174.3
20°	351.4	334.8	301.6	268.4	240.7	218.6	202.0	185.4	174.3	168.8	168.8
22.5°	379.1	354.2	315.4	276.7	246.3	221.4	199.2	182.6	171.6	166.0	166.0
25°	409.5	381.9	332.0	287.8	251.8	221.4	199.2	182.6	171.6	166.0	163.3
27.5°	442.7	412.3	351.4	298.8	257.3	226.9	202.0	182.6	171.6	166.0	166.0
30°	473.2	437.2	370.8	312.7	265.6	229.7	204.8	185.4	171.6	166.0	166.0
32.5°	506.4	464.9	390.2	326.5	273.9	235.2	207.5	188.2	174.3	168.8	166.0
35°	539.6	492.5	409.5	337.6	282.2	240.7	210.3	190.9	177.1	171.6	171.6
37.5°	575.5	523.0	428.9	351.4	290.5	246.3	215.8	193.7	179.9	174.3	174.3
40°	614.3	553.4	448.3	362.5	298.8	251.8	221.4	199.2	185.4	179.9	179.9
42.5°	653.0	586.6	470.4	376.3	307.1	257.3	224.1	204.8	190.9	185.4	185.4
45°	691.8	614.3	489.8	390.2	315.4	265.6	232.4	210.3	196.5	190.9	190.9
47.5°	727.7	644.7	506.4	398.5	323.7	271.2	235.2	215.8	202.0	199.2	196.5
50°	752.6	664.1	517.4	406.8	326.5	273.9	240.7	218.6	207.5	202.0	202.0
52.5°	772.0	683.5	525.7	412.3	329.3	276.7	243.5	224.1	213.1	207.5	204.8
55°	783.1	686.2	525.7	406.8	326.5	276.7	243.5	224.1	213.1	207.5	207.5
57.5°	772.0	672.4	514.7	395.7	318.2	268.4	235.2	218.6	207.5	204.8	202.0
60°	749.9	650.3	492.5	379.1	304.4	254.6	224.1	210.3	202.0	199.2	196.5
62.5°	719.4	622.6	470.4	357.0	285.0	238.0	215.8	199.2	193.7	190.9	188.2
65°	658.6	570.0	434.4	329.3	260.1	218.6	196.5	185.4	179.9	174.3	171.6
67.5°	592.1	511.9	384.6	296.1	229.7	196.5	177.1	166.0	157.7	157.7	155.0
70°	520.2	451.0	332.0	251.8	199.2	171.6	152.2	143.9	138.4	138.4	135.6
72.5°	434.4	379.1	276.7	204.8	163.3	141.1	127.3	119.0	116.2	116.2	113.4
75°	348.6	298.8	218.6	160.5	127.3	110.7	99.6	94.1	91.3	91.3	88.5
77.5°	257.3	218.6	157.7	116.2	91.3	80.2	71.9	69.2	66.4	66.4	63.6
80°	171.6	143.9	102.4	74.7	55.3	49.8	44.3	44.3	41.5	44.3	41.5
82.5°	94.1	77.5	55.3	38.7	27.7	24.9	22.1	22.1	24.9	24.9	22.1
85°	36.0	27.7	19.4	11.1	8.3	8.3	8.3	8.3	8.3	8.3	5.5
87.5°	2.8	2.8	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)