

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: P832501

Luminaire Tested: **TTN-D0-735-U-DL-CG**

Issue Date: 5/14/2024

Test Information

Test Method: LM-79-08
Report Number: P832501
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-D0-735-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: 1083 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

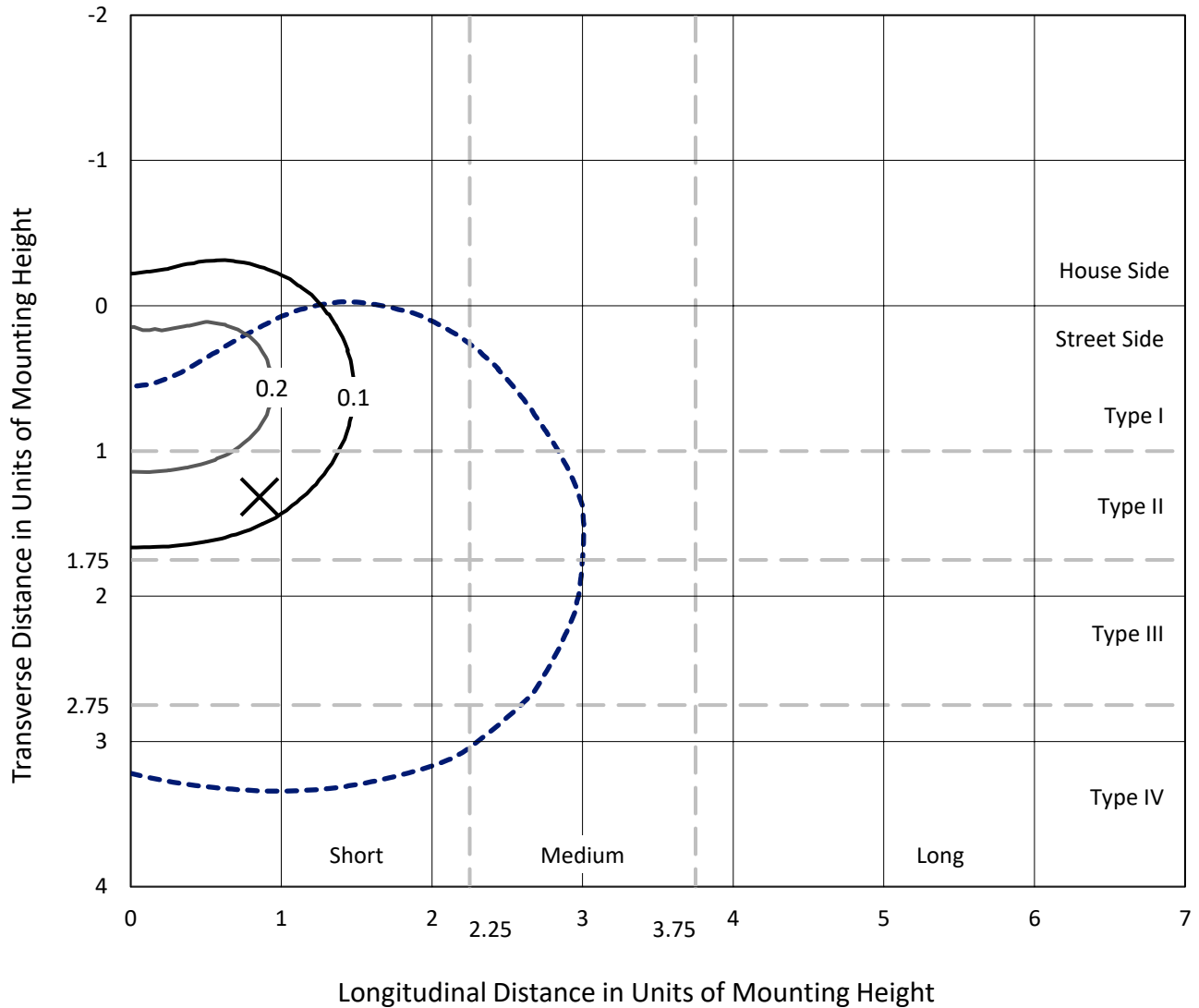
Input Watts (W): 10.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

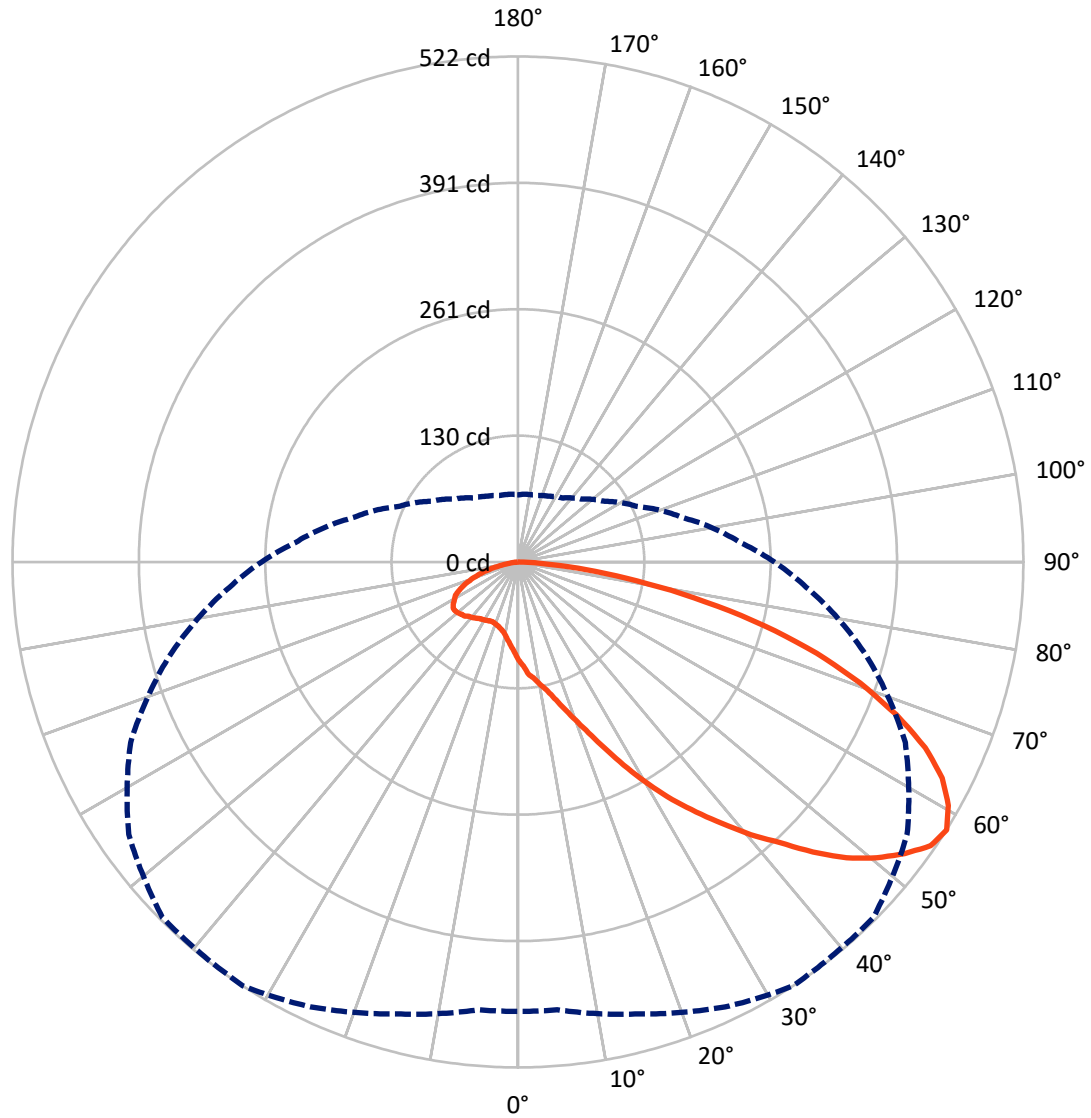
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 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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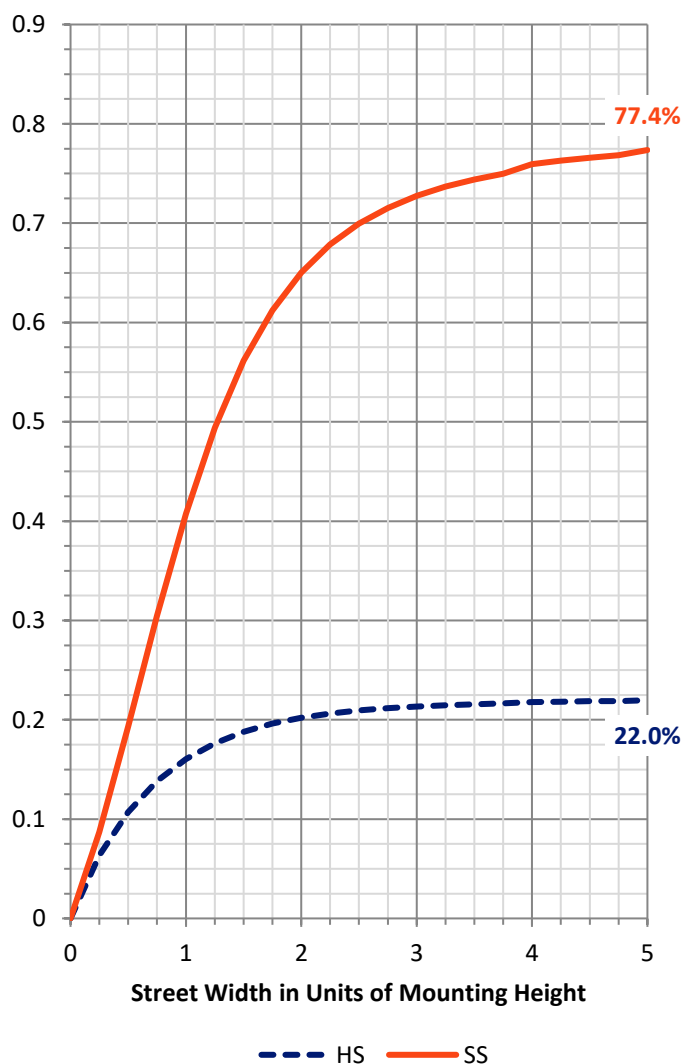
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	239.0	0.0	239.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	844.0	0.0	844.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	1083.0	0.0	1083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.9
10°-20°	31.5	2.9
20°-30°	66.4	6.1
30°-40°	120.6	11.1
40°-50°	190.6	17.6
50°-60°	253.1	23.4
60°-70°	243.6	22.5
70°-80°	143.0	13.2
80°-90°	24.5	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°	1083.0	100.0
0°-180°	1083.0	100.0

Coefficient of Utilization



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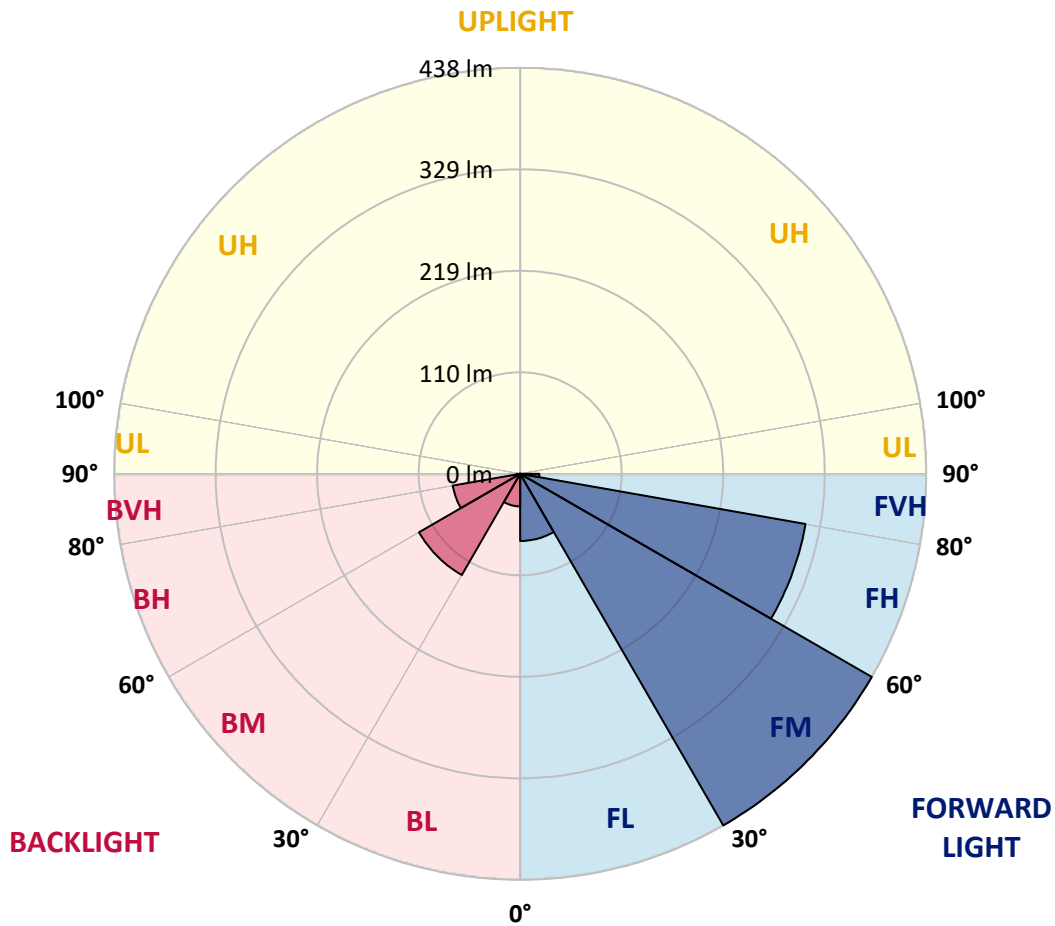
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	72.5	6.7			
FM (30°-60°)	438.1	40.5			
FH (60°-80°)	312.7	28.9			G0/660
FVH (80°-90°)	20.7	1.9			G1/100
BL (0°-30°)	35.2	3.2	B0/110		
BM (30°-60°)	126.1	11.6	B0/220		
BH (60°-80°)	73.9	6.8	B0/110		G0/110
BVH (80°-90°)	3.8	0.4			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	108.1	109.1	108.1	108.1	107.2	107.2	106.2	105.3	104.3	103.4	101.5
5°	120.5	120.5	119.5	117.6	116.7	115.7	113.8	111.0	109.1	106.2	103.4
7.5°	126.2	126.2	125.2	123.3	121.4	120.5	117.6	113.8	111.0	107.2	103.4
10°	133.8	134.7	132.8	130.9	129.0	128.1	124.3	119.5	114.8	110.0	104.3
12.5°	142.3	143.2	142.3	139.4	136.6	135.7	131.9	126.2	120.5	113.8	107.2
15°	153.7	155.6	152.7	150.8	148.0	147.0	142.3	135.7	129.0	120.5	111.9
17.5°	167.0	167.9	166.0	163.2	161.3	160.3	155.6	148.0	138.5	129.0	118.6
20°	182.1	183.1	182.1	178.3	176.4	175.5	170.8	162.2	150.8	140.4	127.1
22.5°	200.2	202.1	199.2	196.4	194.5	194.5	188.8	179.3	166.0	152.7	137.6
25°	221.0	223.9	220.1	218.2	216.3	215.3	210.6	199.2	184.0	167.9	148.9
27.5°	246.6	248.5	245.7	244.7	241.0	241.0	233.4	220.1	204.0	185.0	163.2
30°	269.4	271.3	269.4	269.4	266.6	265.6	258.0	244.7	224.8	202.1	175.5
32.5°	291.2	293.1	292.2	293.1	292.2	291.2	281.7	267.5	247.6	218.2	187.8
35°	313.0	315.9	314.9	317.8	316.8	315.9	308.3	291.2	267.5	238.1	201.1
37.5°	335.8	338.7	338.7	341.5	342.5	342.5	333.9	315.9	289.3	256.1	216.3
40°	360.5	363.3	363.3	368.1	370.0	370.0	360.5	342.5	313.0	276.1	232.4
42.5°	384.2	387.0	388.0	392.7	395.6	396.5	388.9	368.1	333.9	296.0	247.6
45°	407.0	409.8	412.7	422.1	426.9	425.9	420.2	398.4	360.5	316.8	263.7
47.5°	428.8	432.6	437.3	449.7	456.3	455.3	451.5	426.9	385.1	336.8	277.9
50°	445.9	448.7	458.2	471.5	480.0	481.0	475.3	451.5	406.0	351.9	288.4
52.5°	459.1	462.9	474.3	493.3	499.9	502.8	496.1	472.4	426.9	365.2	296.9
55°	468.6	468.6	485.7	507.5	517.0	518.9	518.9	489.5	439.2	373.8	301.7
57.5°	463.9	463.9	482.9	506.6	521.7	520.8	518.9	490.4	441.1	371.9	298.8
60°	450.6	453.4	471.5	495.2	510.4	509.4	503.7	478.1	431.6	364.3	293.1
62.5°	432.6	437.3	456.3	474.3	491.4	494.2	486.6	463.9	415.5	352.9	282.7
65°	398.4	405.1	428.8	448.7	462.0	467.7	458.2	437.3	393.7	331.1	260.9
67.5°	360.5	365.2	385.1	413.6	421.2	426.9	422.1	400.3	363.3	296.0	236.2
70°	316.8	324.4	337.7	366.2	374.7	380.4	380.4	358.6	323.5	259.9	206.8
72.5°	265.6	274.2	290.3	311.2	322.5	326.3	325.4	307.4	276.1	220.1	174.5
75°	209.6	216.3	235.3	250.4	262.8	265.6	264.7	249.5	221.0	177.4	138.5
77.5°	154.6	161.3	175.5	186.9	198.3	196.4	196.4	185.0	167.0	131.9	105.3
80°	101.5	107.2	119.5	123.3	135.7	134.7	134.7	126.2	113.8	88.2	70.2
82.5°	56.0	60.7	69.2	73.0	80.6	78.7	79.7	74.0	66.4	49.3	39.8
85°	19.9	23.7	28.5	31.3	35.1	35.1	35.1	30.4	28.5	19.0	16.1
87.5°	0.9	1.9	3.8	3.8	5.7	5.7	5.7	3.8	3.8	0.9	0.9
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°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	100.6	99.6	98.7	96.8	95.8	94.9	93.9	93.0	93.0	93.0	93.0
5°	101.5	100.6	97.7	94.9	92.0	89.2	87.3	86.3	85.4	84.4	84.4
7.5°	101.5	99.6	95.8	92.0	89.2	85.4	82.5	79.7	77.8	76.8	76.8
10°	102.5	99.6	94.9	91.1	86.3	81.6	77.8	74.0	72.1	70.2	70.2
12.5°	104.3	101.5	94.9	90.1	84.4	78.7	74.0	70.2	67.4	65.5	65.5
15°	108.1	104.3	96.8	90.1	83.5	76.8	72.1	67.4	64.5	62.6	62.6
17.5°	113.8	109.1	99.6	90.1	82.5	75.9	70.2	65.5	61.7	59.8	59.8
20°	120.5	114.8	103.4	92.0	82.5	74.9	69.2	63.6	59.8	57.9	57.9
22.5°	130.0	121.4	108.1	94.9	84.4	75.9	68.3	62.6	58.8	56.9	56.9
25°	140.4	130.9	113.8	98.7	86.3	75.9	68.3	62.6	58.8	56.9	56.0
27.5°	151.8	141.3	120.5	102.5	88.2	77.8	69.2	62.6	58.8	56.9	56.9
30°	162.2	149.9	127.1	107.2	91.1	78.7	70.2	63.6	58.8	56.9	56.9
32.5°	173.6	159.4	133.8	111.9	93.9	80.6	71.1	64.5	59.8	57.9	56.9
35°	185.0	168.9	140.4	115.7	96.8	82.5	72.1	65.5	60.7	58.8	58.8
37.5°	197.3	179.3	147.0	120.5	99.6	84.4	74.0	66.4	61.7	59.8	59.8
40°	210.6	189.7	153.7	124.3	102.5	86.3	75.9	68.3	63.6	61.7	61.7
42.5°	223.9	201.1	161.3	129.0	105.3	88.2	76.8	70.2	65.5	63.6	63.6
45°	237.2	210.6	167.9	133.8	108.1	91.1	79.7	72.1	67.4	65.5	65.5
47.5°	249.5	221.0	173.6	136.6	111.0	93.0	80.6	74.0	69.2	68.3	67.4
50°	258.0	227.7	177.4	139.4	111.9	93.9	82.5	74.9	71.1	69.2	69.2
52.5°	264.7	234.3	180.2	141.3	112.9	94.9	83.5	76.8	73.0	71.1	70.2
55°	268.5	235.3	180.2	139.4	111.9	94.9	83.5	76.8	73.0	71.1	71.1
57.5°	264.7	230.5	176.4	135.7	109.1	92.0	80.6	74.9	71.1	70.2	69.2
60°	257.1	222.9	168.9	130.0	104.3	87.3	76.8	72.1	69.2	68.3	67.4
62.5°	246.6	213.4	161.3	122.4	97.7	81.6	74.0	68.3	66.4	65.5	64.5
65°	225.8	195.4	148.9	112.9	89.2	74.9	67.4	63.6	61.7	59.8	58.8
67.5°	203.0	175.5	131.9	101.5	78.7	67.4	60.7	56.9	54.1	54.1	53.1
70°	178.3	154.6	113.8	86.3	68.3	58.8	52.2	49.3	47.4	47.4	46.5
72.5°	148.9	130.0	94.9	70.2	56.0	48.4	43.6	40.8	39.8	39.8	38.9
75°	119.5	102.5	74.9	55.0	43.6	37.9	34.2	32.3	31.3	31.3	30.4
77.5°	88.2	74.9	54.1	39.8	31.3	27.5	24.7	23.7	22.8	22.8	21.8
80°	58.8	49.3	35.1	25.6	19.0	17.1	15.2	15.2	14.2	15.2	14.2
82.5°	32.3	26.6	19.0	13.3	9.5	8.5	7.6	7.6	8.5	8.5	7.6
85°	12.3	9.5	6.6	3.8	2.8	2.8	2.8	2.8	2.8	2.8	1.9
87.5°	0.9	0.9	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)