

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: P823262

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

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823262
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-D0-735-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: 1092 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

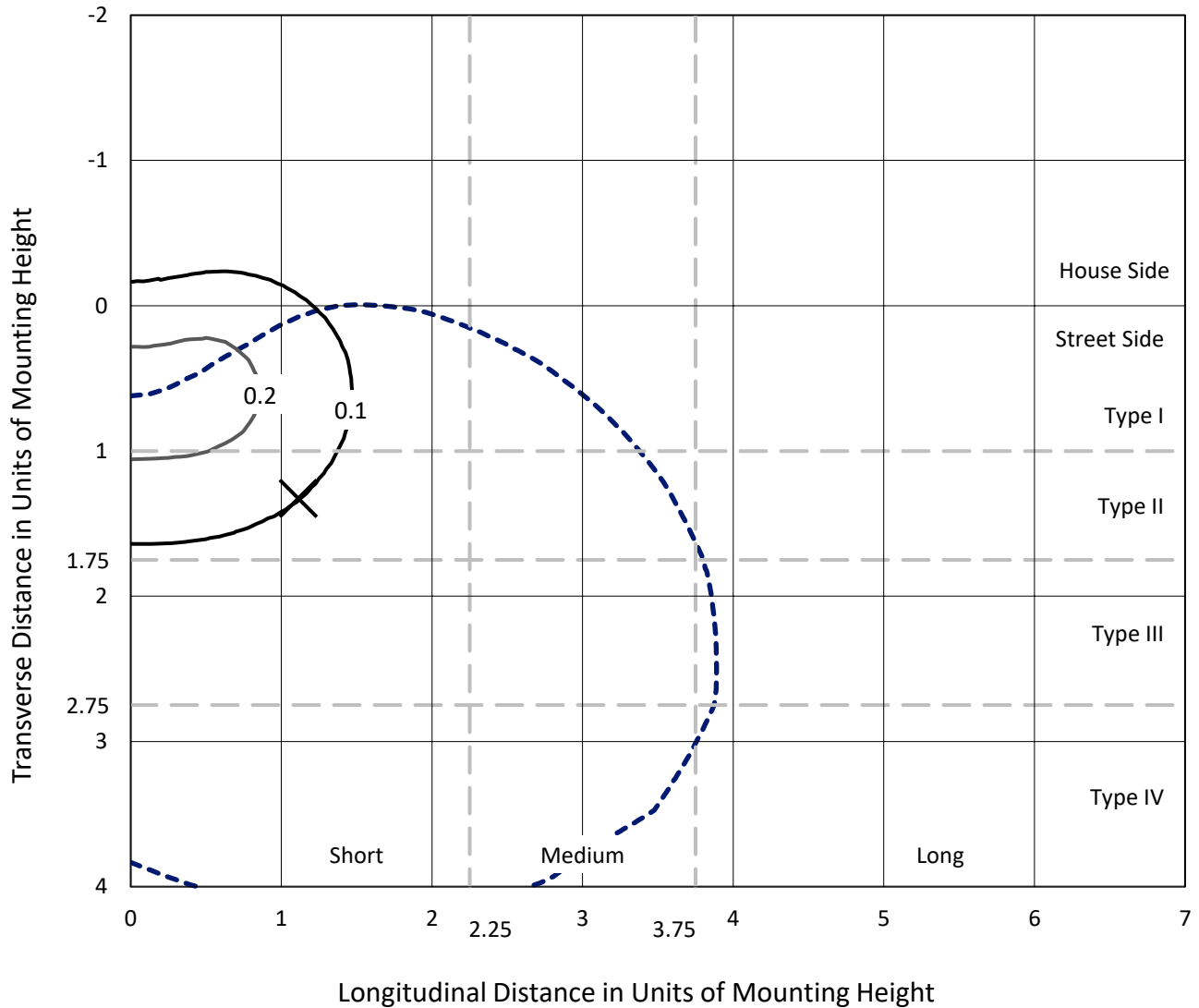
Input Watts (W): 10.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

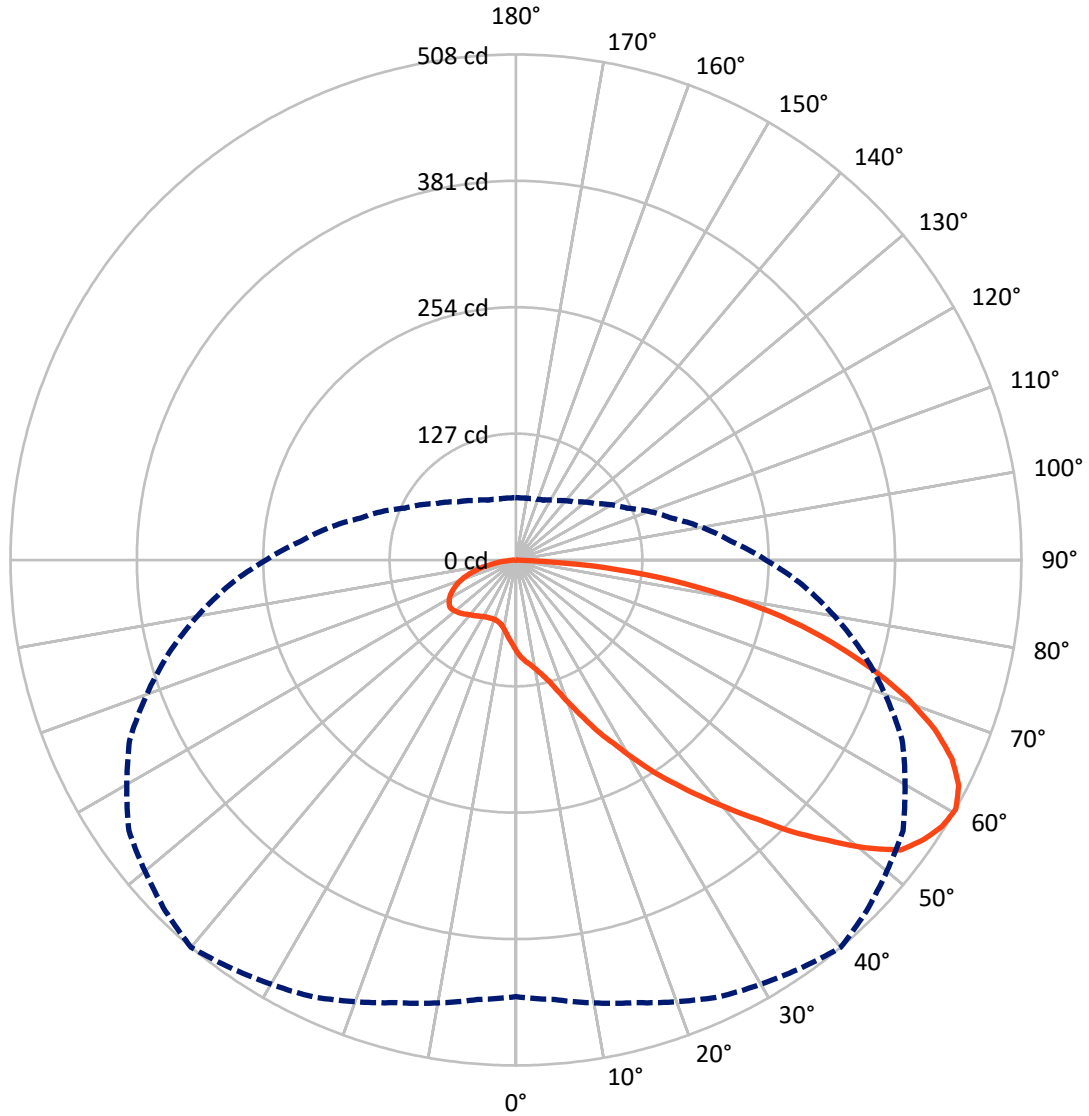
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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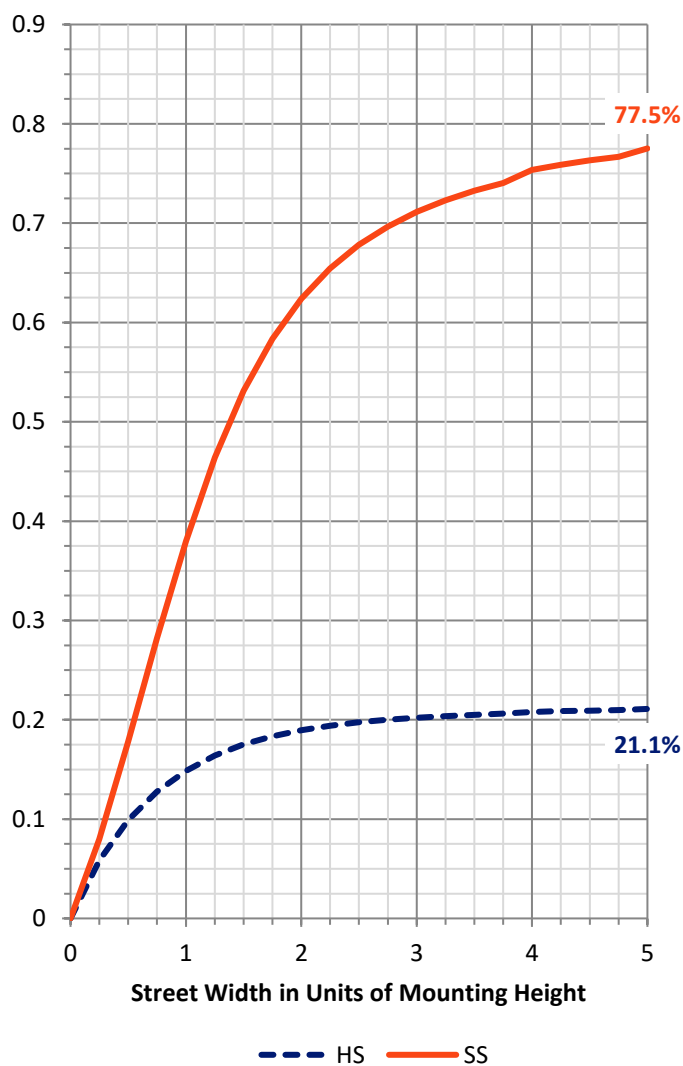
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	232.5	0.0	232.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	859.5	0.0	859.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	1092.0	0.0	1092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.8
10°-20°	27.7	2.5
20°-30°	58.5	5.4
30°-40°	106.9	9.8
40°-50°	173.7	15.9
50°-60°	241.4	22.1
60°-70°	250.2	22.9
70°-80°	179.3	16.4
80°-90°	45.7	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°	1092.0	100.0
0°-180°	1092.0	100.0

Coefficient of Utilization



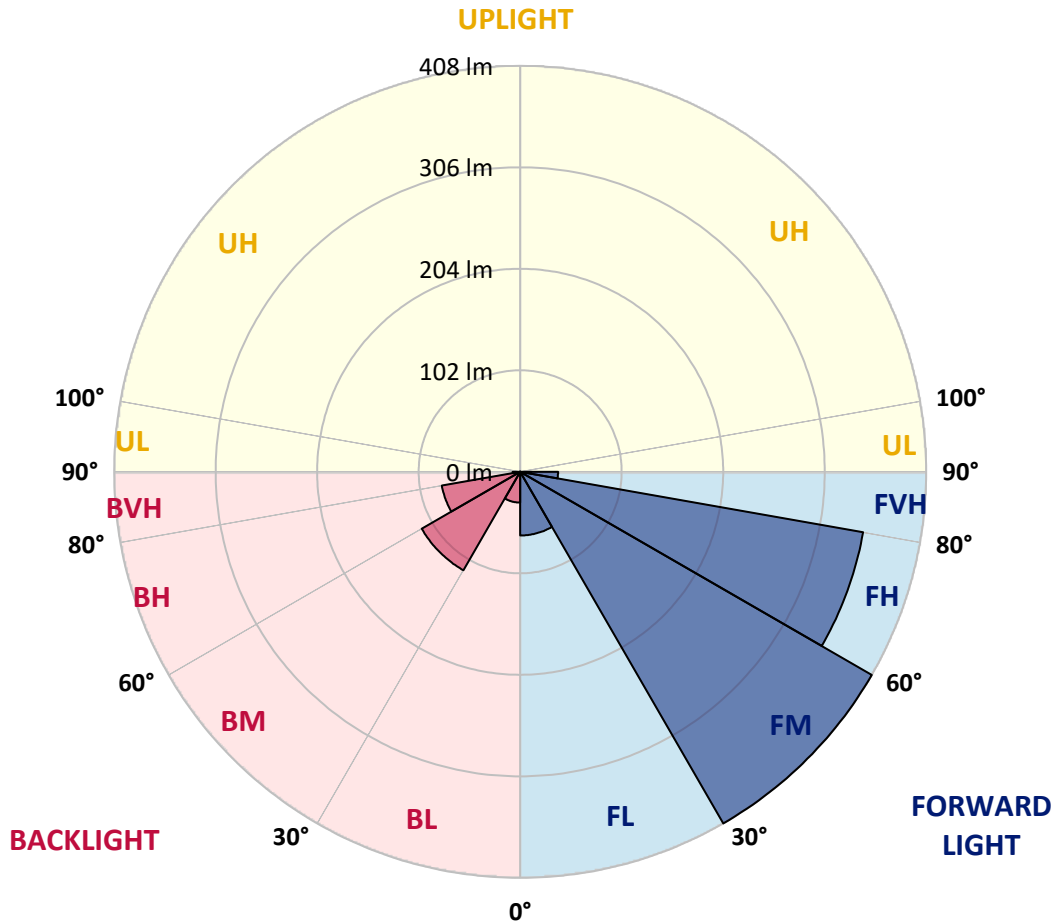
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	63.9	5.9			
FM (30°-60°)	407.8	37.3			
FH (60°-80°)	349.7	32.0			G0/660
FVH (80°-90°)	38.1	3.5			G1/100
BL (0°-30°)	30.9	2.8	B0/110		
BM (30°-60°)	114.2	10.5	B0/220		
BH (60°-80°)	79.8	7.3	B0/110		G0/110
BVH (80°-90°)	7.6	0.7			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°	35°	40°	45°	55°	65°	75°	85°
0°	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
2.5°	98.6	98.6	98.6	98.6	97.7	97.7	96.7	95.8	94.8	93.9	92.0
5°	107.1	107.1	106.2	105.2	103.3	102.4	101.5	99.6	97.7	95.8	92.9
7.5°	110.9	110.9	110.9	110.0	107.1	106.2	104.3	101.5	98.6	95.8	92.0
10°	117.6	117.6	116.6	115.7	112.8	111.9	110.0	106.2	101.5	96.7	92.0
12.5°	126.1	125.2	124.2	123.3	120.4	118.5	115.7	111.9	106.2	100.5	94.8
15°	136.5	134.6	134.6	132.7	129.9	127.1	125.2	119.5	113.8	106.2	98.6
17.5°	147.9	147.0	146.0	144.1	141.3	139.4	136.5	129.9	122.3	112.8	104.3
20°	162.1	160.2	161.2	158.3	155.5	154.5	149.8	142.2	132.7	122.3	111.9
22.5°	179.2	177.3	177.3	174.5	172.6	170.7	165.9	157.4	145.1	133.7	120.4
25°	198.2	196.3	196.3	194.4	192.5	190.6	184.9	175.4	161.2	147.0	131.8
27.5°	219.0	217.1	217.1	216.2	211.4	208.6	203.9	193.4	179.2	161.2	143.2
30°	240.8	238.9	240.8	238.9	236.1	230.4	224.7	213.3	197.2	177.3	155.5
32.5°	257.9	257.9	258.8	260.7	258.8	254.1	247.5	238.0	216.2	191.5	166.9
35°	277.8	277.8	279.7	282.5	281.6	276.9	270.2	259.8	237.0	207.6	179.2
37.5°	299.6	299.6	301.5	306.3	304.4	301.5	296.8	283.5	257.9	223.8	192.5
40°	323.3	322.4	324.3	330.9	331.9	328.1	322.4	309.1	279.7	244.6	206.7
42.5°	347.0	346.1	349.9	356.5	357.5	356.5	350.8	335.6	302.5	265.5	220.9
45°	370.7	370.7	376.4	386.8	391.6	389.7	384.9	366.0	330.9	287.3	239.9
47.5°	395.4	395.4	403.0	416.2	421.9	421.0	419.1	396.3	358.4	310.0	256.0
50°	414.3	414.3	426.7	441.8	451.3	455.1	445.6	424.8	382.1	330.0	269.3
52.5°	433.3	433.3	445.6	469.3	478.8	484.5	472.2	450.4	408.7	348.0	281.6
55°	442.8	444.7	461.7	484.5	499.7	496.8	501.6	472.2	425.7	361.2	289.2
57.5°	443.7	446.6	465.5	489.2	506.3	505.4	506.3	479.8	432.4	364.1	290.1
60°	439.0	443.7	460.8	484.5	500.6	508.2	498.7	475.0	428.6	361.2	289.2
62.5°	427.6	437.1	455.1	473.1	496.8	499.7	492.1	472.2	418.1	358.4	284.4
65°	402.0	412.4	438.0	458.9	477.9	481.7	473.1	456.1	407.7	345.1	269.3
67.5°	376.4	383.1	404.9	437.1	450.4	454.2	451.3	431.4	389.7	318.6	251.3
70°	347.0	355.6	372.6	405.8	419.1	418.1	426.7	403.9	362.2	295.8	232.3
72.5°	307.2	319.5	336.6	364.1	380.2	374.5	387.8	368.8	326.2	267.4	206.7
75°	260.7	271.2	293.0	314.8	332.8	326.2	336.6	323.3	284.4	233.2	177.3
77.5°	208.6	220.9	240.8	260.7	273.1	273.1	277.8	266.4	236.1	191.5	145.1
80°	154.5	165.9	183.9	198.2	209.5	210.5	215.2	209.5	182.0	148.9	110.9
82.5°	102.4	108.1	124.2	135.6	147.0	146.0	153.6	149.8	127.1	102.4	74.0
85°	43.6	47.4	60.7	70.2	80.6	76.8	87.2	86.3	68.3	49.3	33.2
87.5°	1.9	2.8	2.8	1.9	2.8	0.9	2.8	3.8	2.8	1.9	1.9
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°	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
2.5°	92.0	91.0	89.1	88.2	87.2	85.3	85.3	84.4	84.4	84.4	83.4
5°	92.0	90.1	88.2	85.3	83.4	81.5	79.6	77.7	76.8	76.8	75.9
7.5°	90.1	88.2	85.3	82.5	79.6	75.9	74.0	70.2	69.2	68.3	68.3
10°	90.1	88.2	83.4	79.6	75.9	72.1	69.2	65.4	62.6	61.6	61.6
12.5°	91.0	88.2	83.4	78.7	74.0	69.2	65.4	61.6	58.8	56.9	56.9
15°	94.8	91.0	85.3	78.7	73.0	67.3	63.5	58.8	55.9	54.0	54.0
17.5°	99.6	95.8	87.2	79.6	73.0	66.4	61.6	56.9	54.0	52.1	51.2
20°	106.2	100.5	91.0	80.6	73.0	66.4	60.7	55.9	52.1	50.3	50.3
22.5°	113.8	107.1	94.8	82.5	74.0	66.4	60.7	55.0	51.2	49.3	49.3
25°	123.3	114.7	100.5	86.3	75.9	67.3	60.7	55.0	51.2	49.3	49.3
27.5°	133.7	124.2	106.2	90.1	77.7	68.3	60.7	55.0	51.2	49.3	49.3
30°	143.2	132.7	111.9	93.9	80.6	69.2	61.6	55.9	52.1	50.3	49.3
32.5°	153.6	140.3	117.6	97.7	82.5	71.1	62.6	56.9	52.1	50.3	50.3
35°	164.0	149.8	123.3	102.4	85.3	73.0	63.5	57.8	53.1	51.2	51.2
37.5°	175.4	160.2	129.9	106.2	88.2	74.9	65.4	58.8	54.0	52.1	52.1
40°	188.7	170.7	136.5	110.9	91.0	76.8	66.4	60.7	55.9	54.0	54.0
42.5°	201.0	180.1	143.2	114.7	93.9	78.7	68.3	61.6	57.8	55.9	55.9
45°	213.3	191.5	149.8	119.5	96.7	81.5	70.2	64.5	59.7	57.8	57.8
47.5°	227.6	202.0	157.4	123.3	99.6	83.4	72.1	66.4	61.6	60.7	59.7
50°	238.9	209.5	162.1	127.1	101.5	85.3	74.0	67.3	63.5	61.6	61.6
52.5°	249.4	217.1	165.9	128.9	102.4	86.3	75.9	69.2	65.4	63.5	63.5
55°	255.1	220.0	168.8	128.9	103.3	87.2	75.9	69.2	65.4	64.5	63.5
57.5°	255.1	220.0	166.9	127.1	101.5	85.3	74.9	68.3	65.4	63.5	63.5
60°	251.3	217.1	162.1	123.3	98.6	82.5	73.0	66.4	63.5	62.6	62.6
62.5°	245.6	212.4	158.3	118.5	94.8	78.7	70.2	63.5	61.6	61.6	60.7
65°	230.4	198.2	149.8	111.9	89.1	74.0	66.4	60.7	58.8	57.8	56.9
67.5°	214.3	184.9	136.5	104.3	81.5	69.2	61.6	56.9	54.0	54.0	53.1
70°	198.2	170.7	124.2	93.9	73.0	63.5	55.9	51.2	49.3	49.3	49.3
72.5°	176.4	152.7	110.0	82.5	64.5	55.9	50.3	45.5	44.6	44.6	43.6
75°	150.8	129.9	92.9	70.2	54.0	47.4	42.7	37.9	37.9	37.9	37.9
77.5°	123.3	105.2	74.0	55.9	42.7	37.9	35.1	31.3	31.3	31.3	31.3
80°	92.9	77.7	54.0	40.8	31.3	27.5	25.6	23.7	24.7	24.7	23.7
82.5°	60.7	51.2	34.1	25.6	19.9	18.0	18.0	16.1	17.1	17.1	17.1
85°	26.5	22.8	14.2	11.4	9.5	9.5	9.5	8.5	9.5	9.5	9.5
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.9	1.9	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

(END OF REPORT)