

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: P833340

Luminaire Tested: **TTN-D1-830-U-WQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833340
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-D1-830-U-WQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3752.7 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

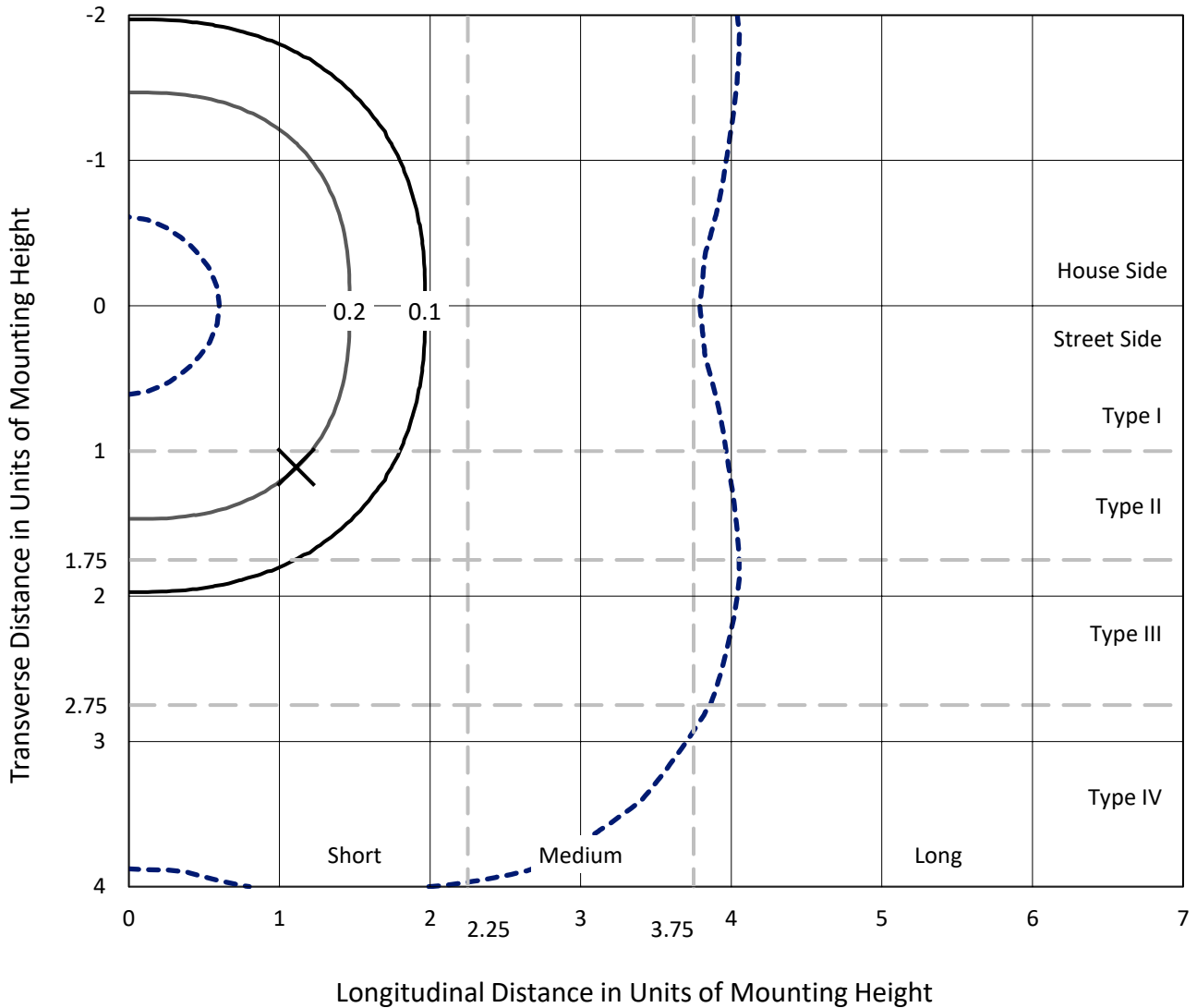
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

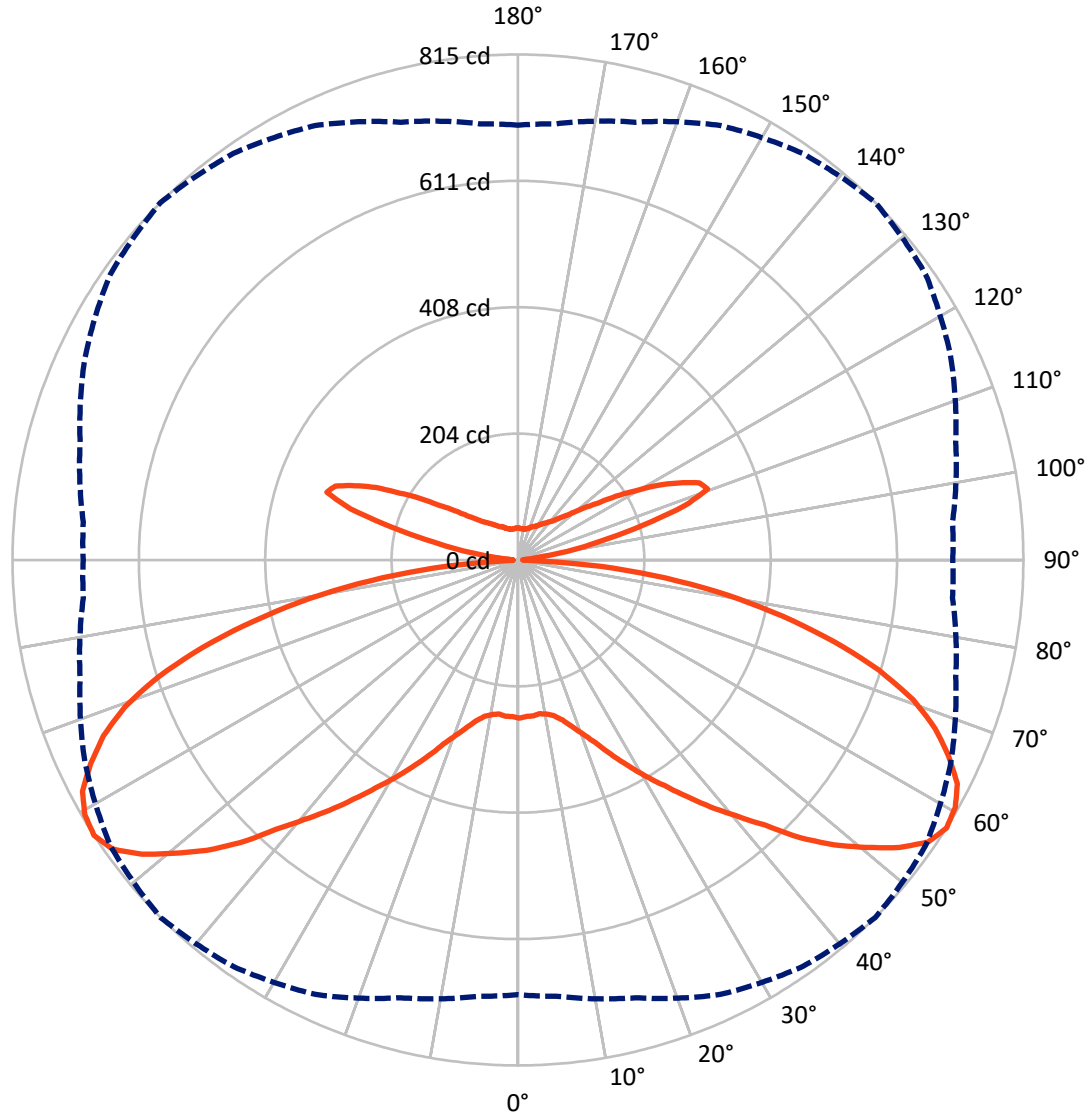
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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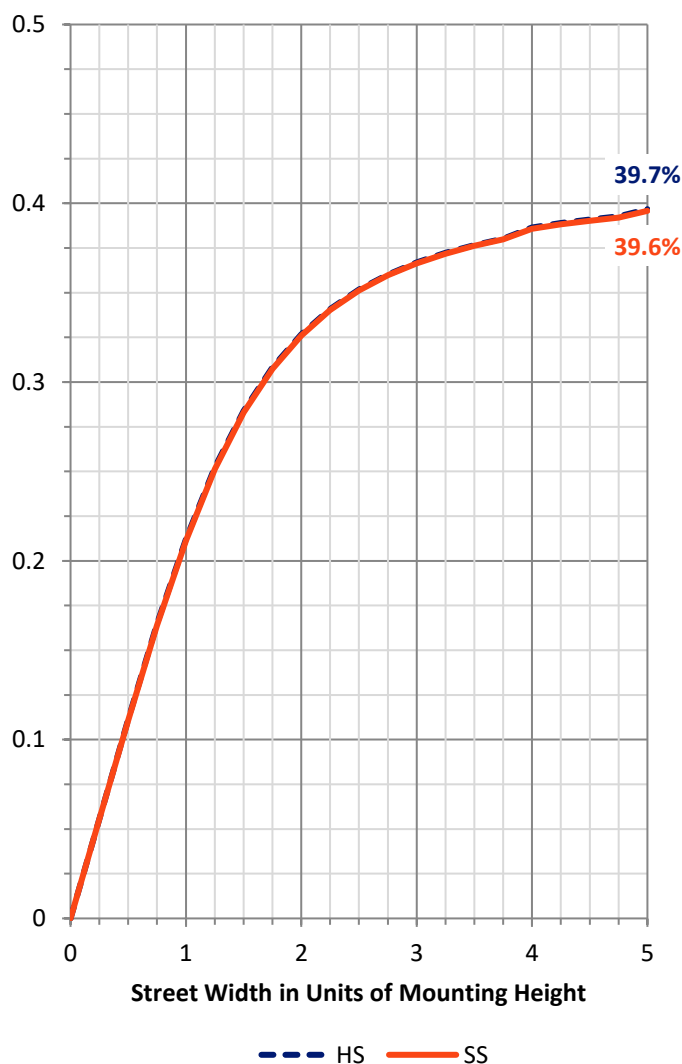
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.0	370.3	1876.3
	% Fixture	40.1	9.9	50.0
Street Side	Lumens	1506.0	370.3	1876.3
	% Fixture	40.1	9.9	50.0
Total	Lumens	3012.0	740.7	3752.7
	% Fixture	80.3	19.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	0.6
10°-20°	76.5	2.0
20°-30°	160.6	4.3
30°-40°	291.4	7.8
40°-50°	475.0	12.7
50°-60°	664.9	17.7
60°-70°	694.2	18.5
70°-80°	496.0	13.2
80°-90°	129.3	3.4
90°-100°	16.5	0.4
100°-110°	168.0	4.5
110°-120°	245.6	6.5
120°-130°	142.5	3.8
130°-140°	75.5	2.0
140°-150°	44.9	1.2
150°-160°	27.6	0.7
160°-170°	15.1	0.4
170°-180°	4.9	0.1
0°-90°	3012.0	80.3
0°-180°	3752.7	100.0

Coefficient of Utilization



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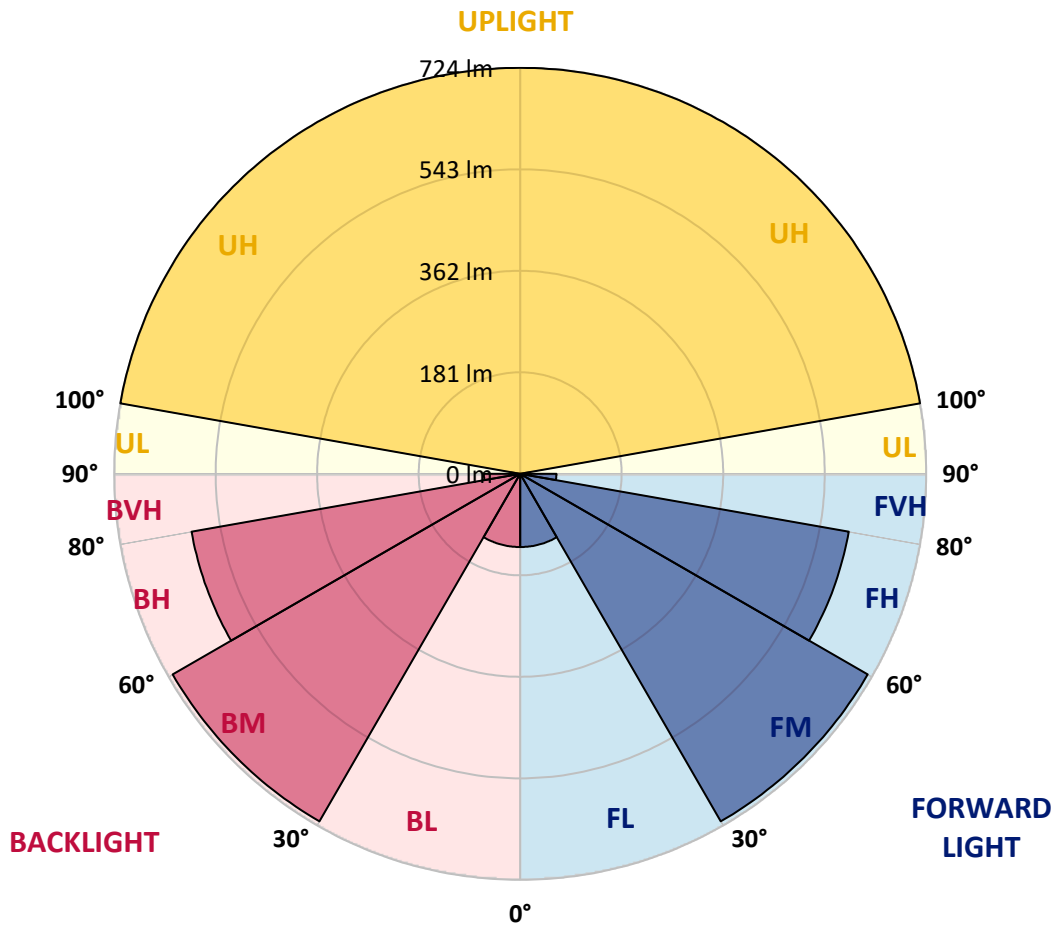
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.6	3.5			
FM (30°-60°)	715.7	19.1			
FH (60°-80°)	595.1	15.9			G0/660
FVH (80°-90°)	64.7	1.7			G1/100
BL (0°-30°)	130.6	3.5	B1/500		
BM (30°-60°)	715.7	19.1	B1/1000		
BH (60°-80°)	595.1	15.9	B2/1000		G0/660
BVH (80°-90°)	64.7	1.7			G1/100
UL (90°-100°)	16.5	0.4		U2/50	
UH (100°-180°)	724.2	19.3		U4/1000	

BUG Rating: B2-U4-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2
2.5°	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7
5°	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7	252.7
7.5°	247.8	247.8	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3
10°	247.8	247.8	250.3	250.3	252.7	252.7	252.7	250.3	250.3	247.8	247.8
12.5°	252.7	252.7	252.7	255.2	257.7	257.7	257.7	255.2	255.2	252.7	252.7
15°	260.2	262.7	262.7	265.1	267.6	267.6	267.6	265.1	265.1	262.7	262.7
17.5°	275.0	275.0	275.0	277.5	280.0	282.5	282.5	277.5	277.5	275.0	277.5
20°	289.9	292.4	292.4	294.9	297.3	299.8	297.3	294.9	292.4	292.4	292.4
22.5°	312.2	312.2	314.7	314.7	319.6	319.6	319.6	314.7	314.7	314.7	314.7
25°	337.0	337.0	339.5	341.9	346.9	346.9	344.4	339.5	339.5	339.5	341.9
27.5°	366.7	366.7	369.2	369.2	374.2	374.2	371.7	369.2	369.2	369.2	371.7
30°	394.0	394.0	398.9	401.4	403.9	403.9	403.9	398.9	398.9	396.5	396.5
32.5°	418.8	421.2	423.7	431.2	436.1	433.6	436.1	431.2	426.2	423.7	423.7
35°	446.0	448.5	453.5	460.9	468.3	468.3	468.3	460.9	455.9	451.0	453.5
37.5°	478.2	478.2	485.7	493.1	503.0	505.5	503.0	495.6	488.1	483.2	483.2
40°	512.9	512.9	520.4	527.8	540.2	542.7	540.2	530.3	520.4	517.9	517.9
42.5°	547.6	547.6	557.5	565.0	579.8	584.8	579.8	567.4	557.5	550.1	552.6
45°	584.8	587.3	599.7	614.5	631.9	639.3	631.9	617.0	602.1	587.3	587.3
47.5°	626.9	626.9	641.8	659.1	678.9	686.4	676.5	661.6	641.8	629.4	629.4
50°	654.2	656.6	676.5	698.8	723.5	728.5	721.1	698.8	676.5	659.1	656.6
52.5°	681.4	683.9	706.2	738.4	763.2	770.6	760.7	738.4	706.2	683.9	683.9
55°	698.8	703.7	728.5	763.2	790.4	802.8	788.0	763.2	726.0	701.2	698.8
57.5°	701.2	706.2	731.0	773.1	800.4	815.2	802.8	770.6	731.0	703.7	701.2
60°	696.3	698.8	723.5	768.1	800.4	810.3	800.4	765.7	721.1	698.8	693.8
62.5°	683.9	688.9	713.6	750.8	788.0	795.4	785.5	748.3	711.2	683.9	678.9
65°	644.3	649.2	686.4	723.5	755.8	763.2	755.8	723.5	683.9	644.3	639.3
67.5°	599.7	602.1	639.3	683.9	713.6	726.0	713.6	686.4	636.8	599.7	594.7
70°	552.6	555.0	584.8	631.9	661.6	676.5	664.1	634.3	582.3	550.1	547.6
72.5°	498.1	498.1	527.8	565.0	594.7	609.6	599.7	562.5	522.8	490.6	485.7
75°	423.7	426.2	458.4	485.7	517.9	527.8	517.9	488.1	451.0	418.8	413.8
77.5°	346.9	349.4	376.6	398.9	428.7	436.1	428.7	403.9	369.2	341.9	339.5
80°	262.7	265.1	287.4	307.3	332.0	341.9	334.5	309.7	282.5	257.7	250.3
82.5°	171.0	173.5	195.8	210.6	232.9	240.4	235.4	213.1	190.8	166.0	163.5
85°	76.8	79.3	99.1	111.5	128.9	136.3	131.3	111.5	94.2	71.9	66.9
87.5°	7.4	7.4	7.4	7.4	7.4	9.9	9.9	7.4	7.4	7.4	7.4
90°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)