

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: P833957

Luminaire Tested: **TTN-D3-750-U-RW-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833957
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-D3-750-U-RW-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7018.7 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U4 - G3

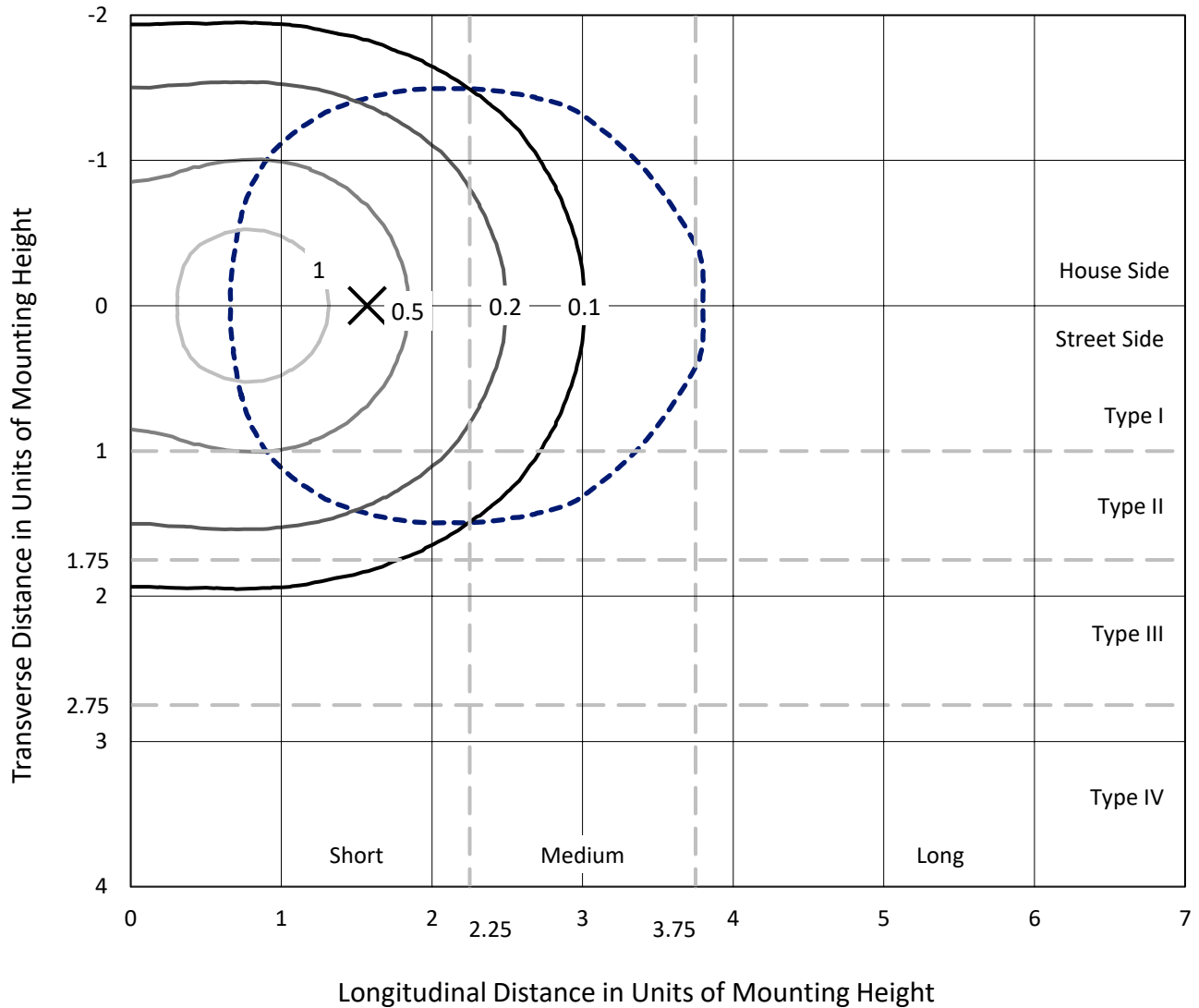
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

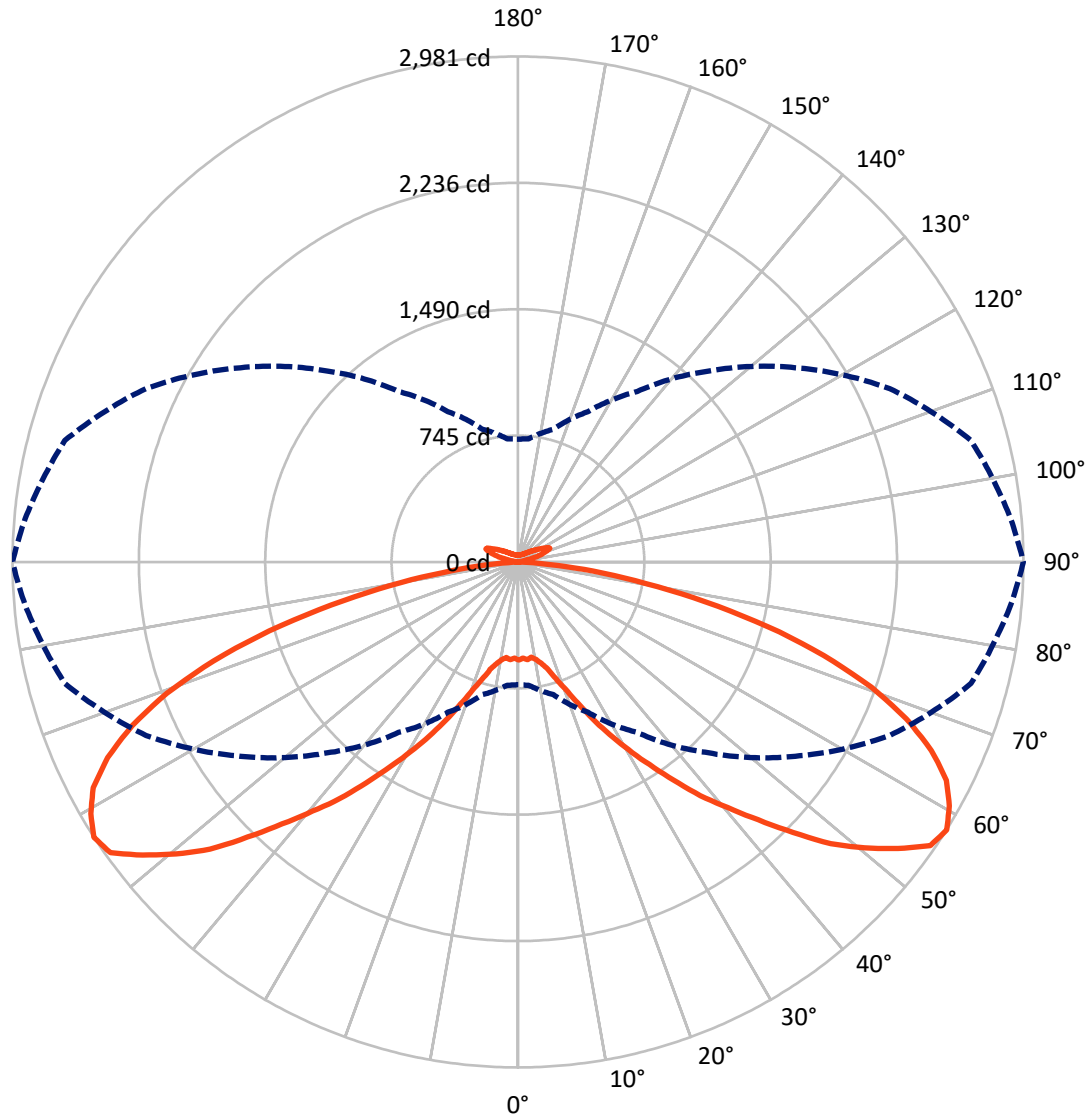
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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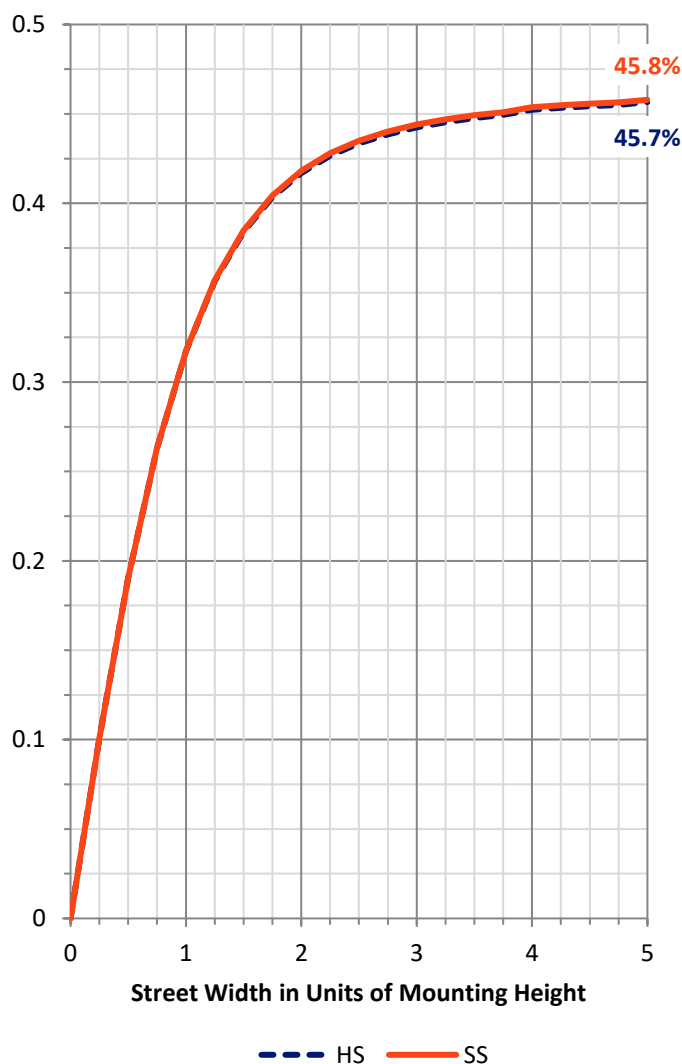
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3216.9	292.5	3509.3
	% Fixture	45.8	4.2	50.0
Street Side	Lumens	3216.9	292.5	3509.3
	% Fixture	45.8	4.2	50.0
Total	Lumens	6433.8	584.9	7018.7
	% Fixture	91.7	8.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	0.8
10°-20°	177.7	2.5
20°-30°	378.3	5.4
30°-40°	697.3	9.9
40°-50°	1122.7	16.0
50°-60°	1519.5	21.6
60°-70°	1477.4	21.0
70°-80°	859.6	12.2
80°-90°	146.1	2.1
90°-100°	13.1	0.2
100°-110°	132.7	1.9
110°-120°	194.0	2.8
120°-130°	112.6	1.6
130°-140°	59.7	0.9
140°-150°	35.4	0.5
150°-160°	21.8	0.3
160°-170°	11.9	0.2
170°-180°	3.9	0.1
0°-90°	6433.8	91.7
0°-180°	7018.7	100.0

Coefficient of Utilization



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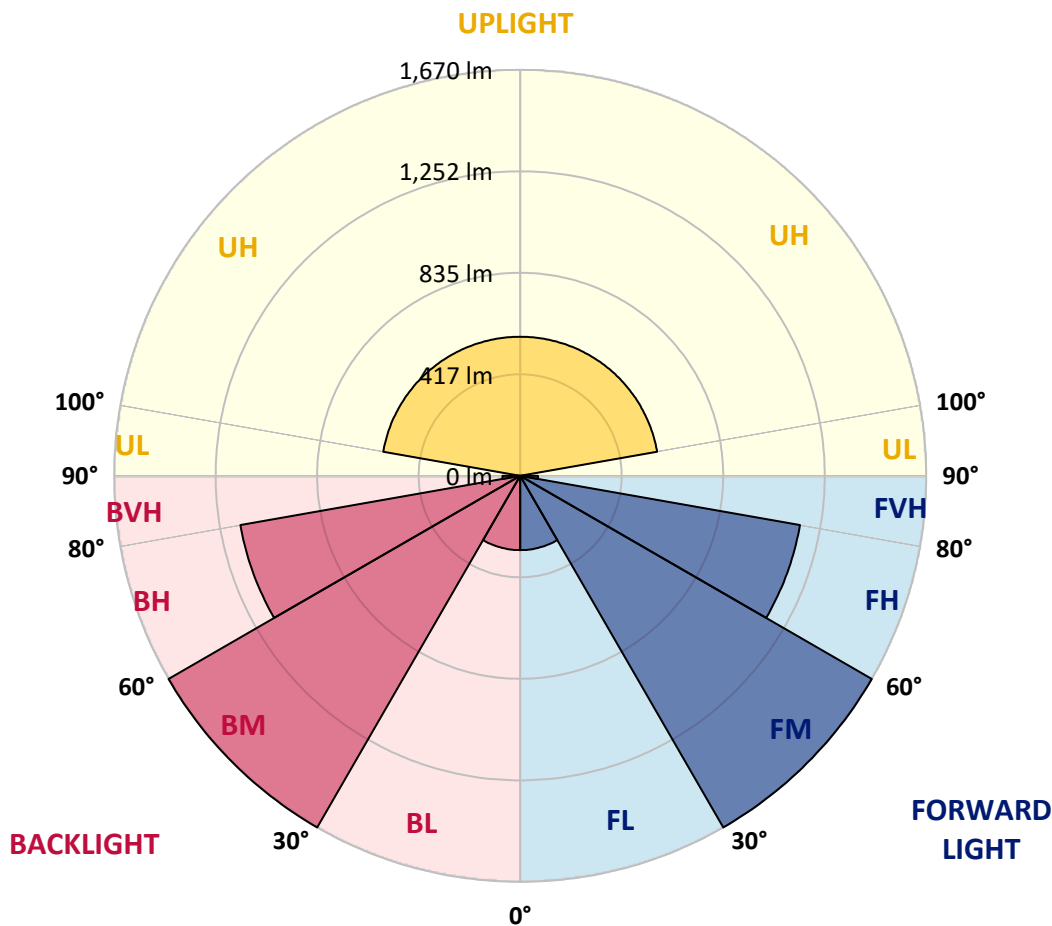
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.6	4.4			
FM (30°-60°)	1669.7	23.8			
FH (60°-80°)	1168.5	16.6			G1/1800
FVH (80°-90°)	73.1	1.0			G1/100
BL (0°-30°)	305.6	4.4	B1/500		
BM (30°-60°)	1669.7	23.8	B2/2500		
BH (60°-80°)	1168.5	16.6	B3/2500		G3/2500
BVH (80°-90°)	73.1	1.0			G1/100
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	8.1		U4/1000	

BUG Rating: B3-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	578.8	578.8	578.8	578.8	573.0	573.0	573.0	567.2	567.2	567.2	567.2
5°	578.8	578.8	578.8	584.6	584.6	584.6	578.8	578.8	578.8	578.8	578.8
7.5°	578.8	584.6	584.6	578.8	578.8	573.0	573.0	573.0	567.2	567.2	567.2
10°	578.8	578.8	578.8	578.8	573.0	573.0	578.8	578.8	584.6	584.6	584.6
12.5°	573.0	573.0	578.8	578.8	578.8	584.6	596.2	602.0	607.7	613.5	613.5
15°	578.8	578.8	584.6	590.4	596.2	607.7	625.1	642.5	654.0	659.8	654.0
17.5°	578.8	584.6	590.4	602.0	619.3	636.7	665.6	688.8	711.9	717.7	723.5
20°	590.4	590.4	596.2	619.3	648.3	677.2	717.7	758.2	787.2	798.8	798.8
22.5°	596.2	602.0	607.7	636.7	683.0	729.3	787.2	833.5	874.0	897.1	902.9
25°	613.5	613.5	625.1	665.6	723.5	793.0	868.2	937.7	989.8	1018.7	1024.5
27.5°	625.1	630.9	648.3	700.4	775.6	862.4	966.6	1047.6	1111.3	1146.0	1151.8
30°	636.7	642.5	677.2	735.1	827.7	931.9	1053.4	1157.6	1238.6	1279.2	1284.9
32.5°	654.0	659.8	700.4	764.0	874.0	1001.3	1140.2	1267.6	1383.3	1418.1	1423.9
35°	671.4	677.2	723.5	798.8	926.1	1070.8	1232.9	1383.3	1522.3	1568.6	1580.1
37.5°	688.8	694.6	740.9	833.5	978.2	1146.0	1337.0	1516.5	1667.0	1730.6	1748.0
40°	706.1	711.9	764.0	868.2	1030.3	1227.1	1447.0	1643.8	1817.4	1892.7	1904.3
42.5°	717.7	723.5	781.4	897.1	1082.4	1302.3	1562.8	1782.7	1967.9	2066.3	2077.9
45°	735.1	740.9	804.5	937.7	1128.7	1389.1	1672.7	1939.0	2153.2	2263.1	2274.7
47.5°	746.7	752.4	821.9	960.8	1180.8	1470.2	1788.5	2077.9	2332.6	2448.3	2483.1
50°	752.4	758.2	833.5	984.0	1215.5	1528.0	1881.1	2216.8	2488.9	2633.6	2650.9
52.5°	752.4	764.0	839.3	1001.3	1238.6	1580.1	1956.4	2332.6	2639.4	2801.4	2807.2
55°	746.7	752.4	833.5	995.5	1250.2	1603.3	2008.5	2402.0	2743.5	2899.8	2951.9
57.5°	723.5	729.3	810.3	978.2	1227.1	1591.7	1996.9	2419.4	2766.7	2917.2	2980.8
60°	688.8	700.4	775.6	937.7	1192.3	1551.2	1962.1	2384.7	2732.0	2917.2	2923.0
62.5°	648.3	654.0	729.3	885.6	1140.2	1487.5	1898.5	2315.2	2650.9	2841.9	2836.1
65°	590.4	596.2	659.8	821.9	1047.6	1366.0	1771.1	2205.2	2494.6	2697.2	2679.9
67.5°	526.7	532.5	590.4	735.1	937.7	1232.9	1597.5	2020.0	2274.7	2483.1	2471.5
70°	457.3	457.3	509.3	630.9	821.9	1082.4	1406.5	1776.9	2031.6	2205.2	2211.0
72.5°	376.2	376.2	422.5	526.7	688.8	908.7	1186.6	1516.5	1724.8	1875.3	1886.9
75°	295.2	289.4	329.9	416.7	544.1	723.5	937.7	1221.3	1383.3	1528.0	1522.3
77.5°	208.4	208.4	231.5	301.0	393.6	538.3	694.6	920.3	1030.3	1151.8	1128.7
80°	133.1	133.1	144.7	196.8	260.5	358.9	457.3	625.1	700.4	793.0	764.0
82.5°	69.5	63.7	75.2	104.2	138.9	196.8	254.7	364.6	399.4	468.8	445.7
85°	23.2	23.2	23.2	34.7	52.1	75.2	98.4	156.3	162.1	208.4	191.0
87.5°	5.8	0.0	0.0	5.8	5.8	5.8	5.8	17.4	17.4	34.7	23.2
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)