

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: P833901

Luminaire Tested: **TTN-D3-735-U-RW-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833901
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-D3-735-U-RW-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7258.7 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U4 - G3

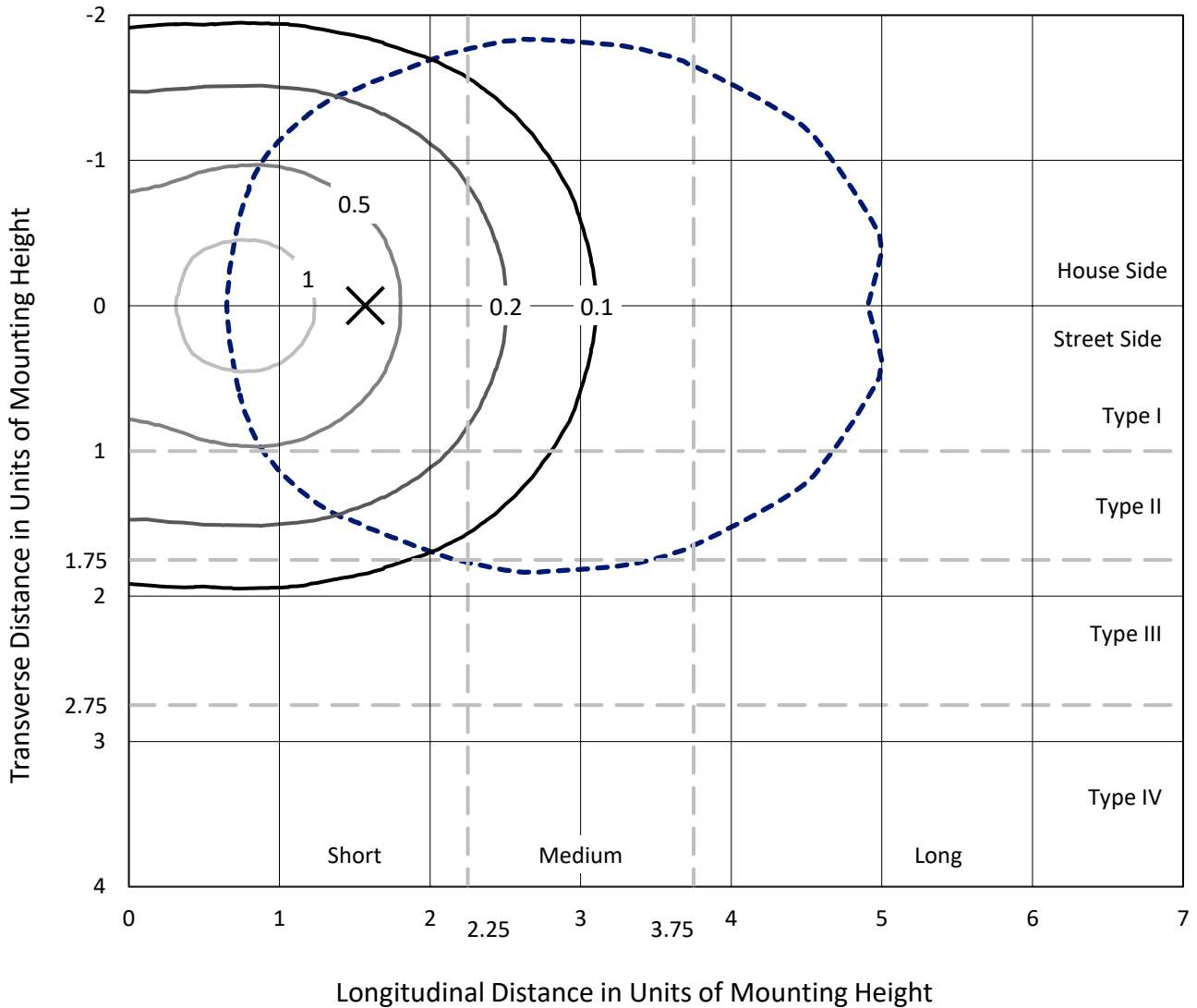
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

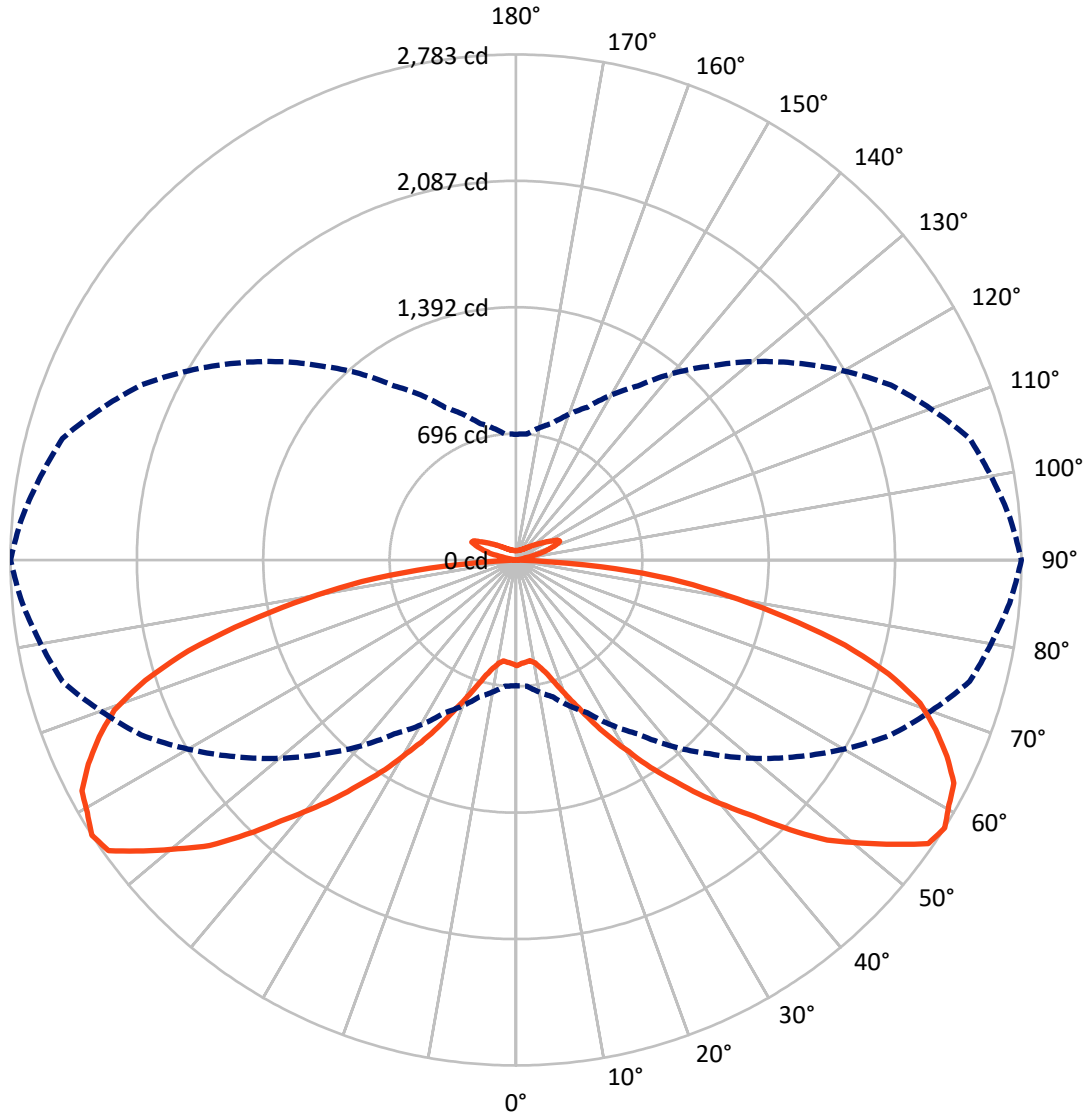
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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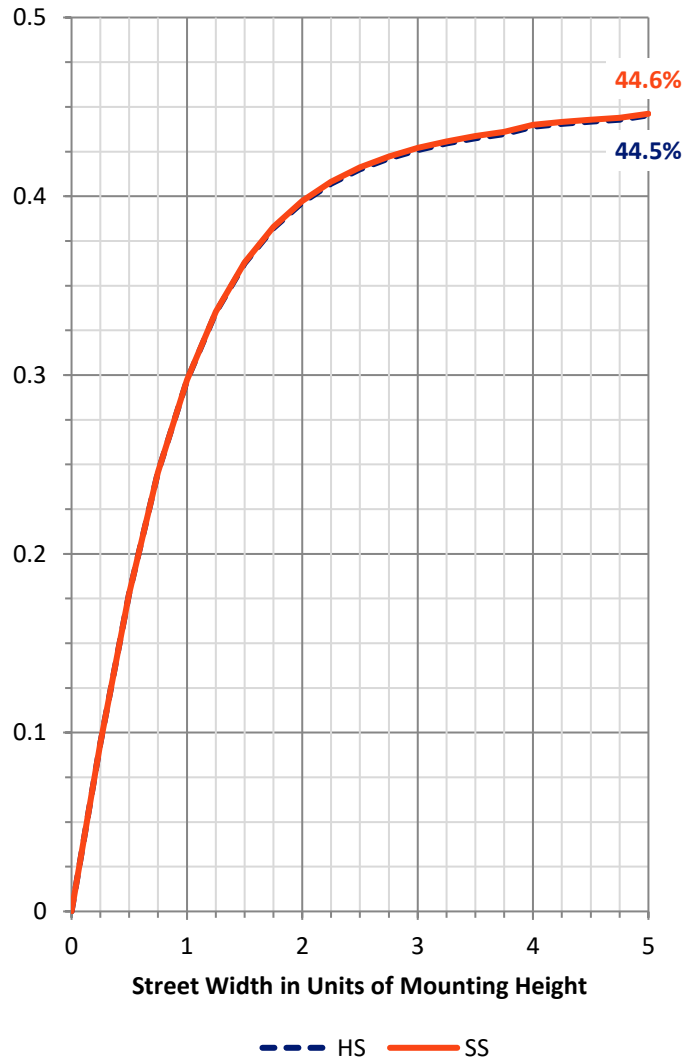
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3253.0	376.3	3629.3
	% Fixture	44.8	5.2	50.0
Street Side	Lumens	3253.0	376.3	3629.3
	% Fixture	44.8	5.2	50.0
Total	Lumens	6506.0	752.7	7258.7
	% Fixture	89.6	10.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	0.8
10°-20°	174.4	2.4
20°-30°	364.0	5.0
30°-40°	652.7	9.0
40°-50°	1043.0	14.4
50°-60°	1427.9	19.7
60°-70°	1472.9	20.3
70°-80°	1047.4	14.4
80°-90°	269.1	3.7
90°-100°	16.8	0.2
100°-110°	170.7	2.4
110°-120°	249.6	3.4
120°-130°	144.9	2.0
130°-140°	76.7	1.1
140°-150°	45.6	0.6
150°-160°	28.1	0.4
160°-170°	15.3	0.2
170°-180°	5.0	0.1
0°-90°	6506.0	89.6
0°-180°	7258.7	100.0

Coefficient of Utilization



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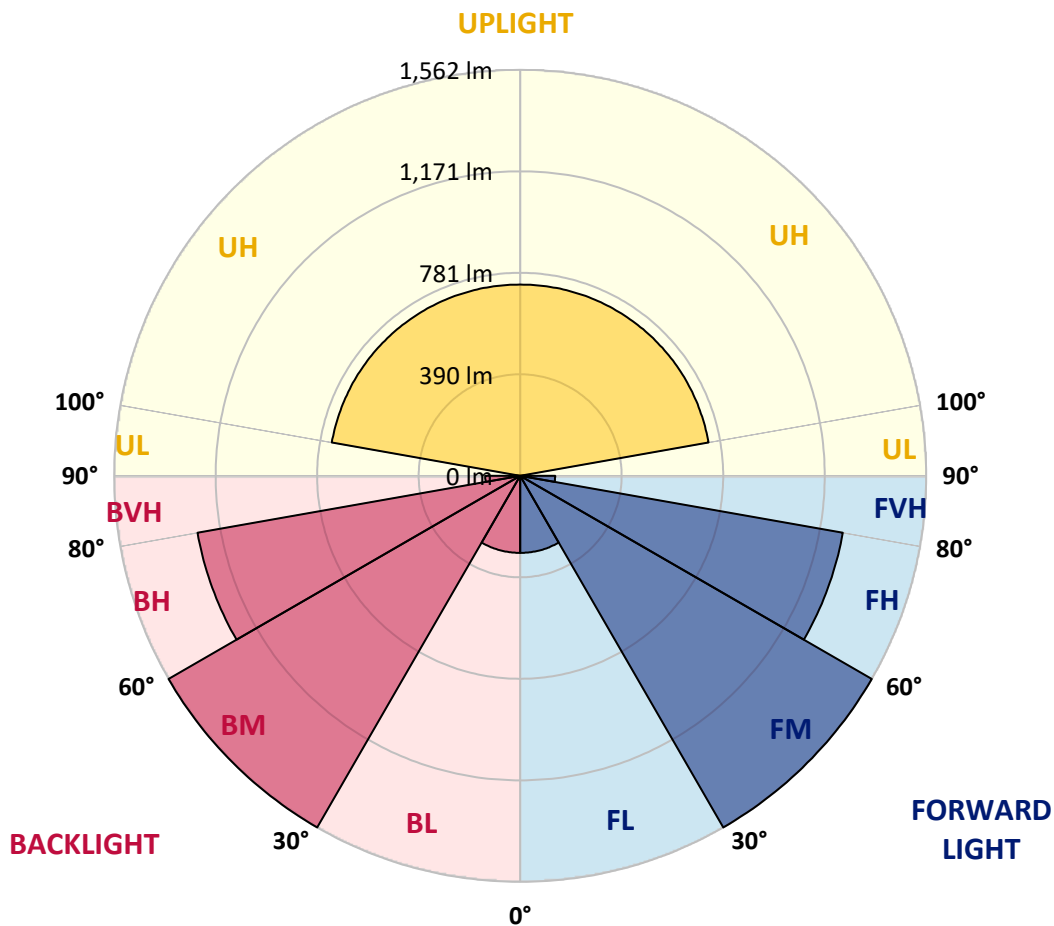
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.5	4.1			
FM (30°-60°)	1561.8	21.5			
FH (60°-80°)	1260.1	17.4			G1/1800
FVH (80°-90°)	134.6	1.9			G2/225
BL (0°-30°)	296.5	4.1	B1/500		
BM (30°-60°)	1561.8	21.5	B2/2500		
BH (60°-80°)	1260.1	17.4	B3/2500		G3/2500
BVH (80°-90°)	134.6	1.9			G2/225
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	10.1		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°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	581.9	581.9	576.4	576.4	576.4	570.9	570.9	570.9	570.9	565.4	570.9
5°	581.9	581.9	581.9	581.9	576.4	570.9	570.9	570.9	565.4	565.4	565.4
7.5°	576.4	576.4	576.4	576.4	570.9	565.4	565.4	565.4	559.9	559.9	559.9
10°	570.9	576.4	570.9	570.9	565.4	565.4	570.9	570.9	576.4	576.4	576.4
12.5°	565.4	565.4	565.4	570.9	570.9	576.4	587.4	598.4	603.9	609.3	609.3
15°	565.4	565.4	570.9	576.4	587.4	598.4	614.8	631.3	642.3	653.3	653.3
17.5°	565.4	565.4	570.9	587.4	603.9	625.8	653.3	675.2	697.2	713.6	719.1
20°	565.4	565.4	576.4	598.4	631.3	664.2	702.7	735.6	768.5	796.0	796.0
22.5°	570.9	576.4	587.4	614.8	664.2	713.6	763.1	812.5	850.9	883.8	883.8
25°	581.9	581.9	598.4	642.3	702.7	768.5	839.9	900.3	949.7	993.6	993.6
27.5°	587.4	592.9	614.8	669.7	746.6	828.9	927.7	999.1	1065.0	1103.4	1108.9
30°	598.4	603.9	636.8	691.7	785.0	889.3	1004.6	1103.4	1174.8	1213.2	1224.2
32.5°	603.9	609.3	653.3	719.1	823.4	944.2	1076.0	1202.2	1301.0	1345.0	1361.4
35°	620.3	625.8	669.7	746.6	867.4	1004.6	1158.3	1306.5	1421.8	1476.7	1487.7
37.5°	636.8	642.3	686.2	774.0	911.3	1070.5	1246.1	1416.3	1548.1	1613.9	1635.9
40°	647.8	653.3	702.7	807.0	960.7	1141.8	1345.0	1531.6	1679.8	1762.2	1778.6
42.5°	664.2	669.7	724.6	834.4	1004.6	1213.2	1449.3	1657.9	1817.1	1910.4	1932.3
45°	680.7	686.2	746.6	867.4	1054.0	1290.1	1553.6	1806.1	1987.2	2097.0	2119.0
47.5°	697.2	702.7	768.5	900.3	1103.4	1366.9	1663.3	1937.8	2157.4	2261.7	2305.6
50°	702.7	713.6	779.5	922.3	1136.3	1432.8	1756.7	2069.6	2300.1	2437.4	2448.4
52.5°	708.2	719.1	790.5	938.7	1163.8	1482.2	1833.5	2179.4	2448.4	2613.1	2602.1
55°	713.6	713.6	790.5	938.7	1174.8	1515.1	1888.4	2250.7	2547.2	2678.9	2755.8
57.5°	691.7	697.2	779.5	927.7	1169.3	1509.6	1888.4	2278.2	2585.6	2728.3	2783.2
60°	664.2	675.2	752.1	900.3	1147.3	1493.2	1877.4	2267.2	2602.1	2755.8	2739.3
62.5°	625.8	647.8	713.6	861.9	1114.4	1454.7	1861.0	2239.8	2563.6	2722.8	2706.4
65°	581.9	603.9	664.2	823.4	1043.0	1361.4	1773.1	2184.9	2459.3	2640.5	2607.6
67.5°	538.0	554.4	614.8	757.6	960.7	1262.6	1657.9	2064.1	2311.1	2508.7	2492.3
70°	488.6	494.1	554.4	680.7	878.3	1163.8	1548.1	1893.9	2179.4	2327.6	2360.5
72.5°	428.2	428.2	488.6	598.4	779.5	1032.0	1399.8	1701.8	1970.8	2097.0	2146.4
75°	351.3	356.8	406.2	505.0	653.3	883.8	1191.2	1498.7	1723.7	1855.5	1872.0
77.5°	274.5	280.0	318.4	400.7	527.0	713.6	982.6	1224.2	1438.3	1553.6	1520.6
80°	197.6	203.1	230.6	290.9	389.8	532.5	757.6	971.7	1125.4	1218.7	1174.8
82.5°	120.8	126.3	142.7	181.2	247.0	345.8	516.0	675.2	796.0	872.8	856.4
85°	60.4	60.4	71.4	82.3	104.3	153.7	247.0	340.4	433.7	488.6	472.1
87.5°	11.0	16.5	16.5	16.5	16.5	11.0	16.5	16.5	16.5	27.4	11.0
90°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)