

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: P833900

Luminaire Tested: **TTN-D3-735-U-RW-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833900
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-UPL2
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: 7048.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U4 - G3

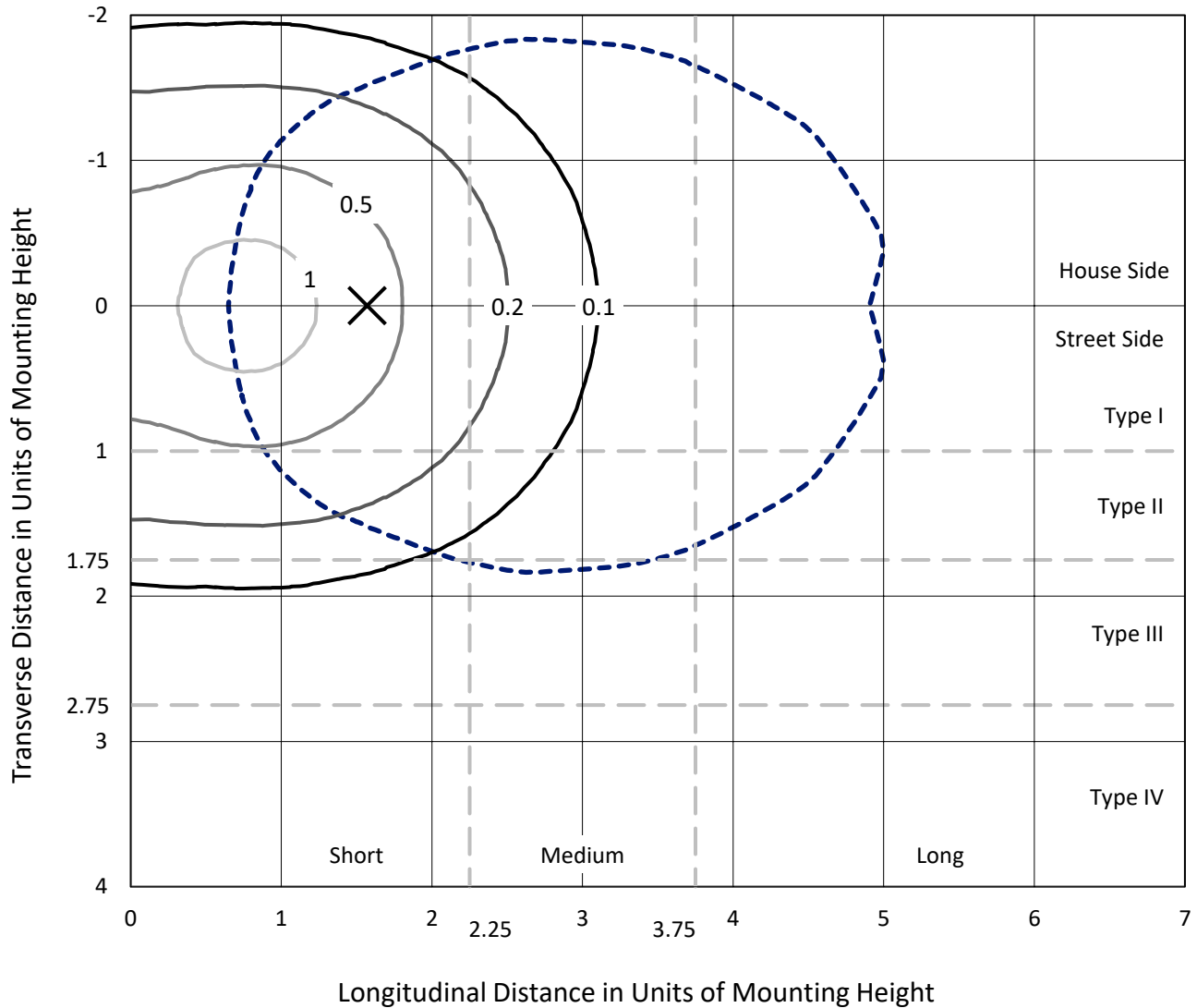
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

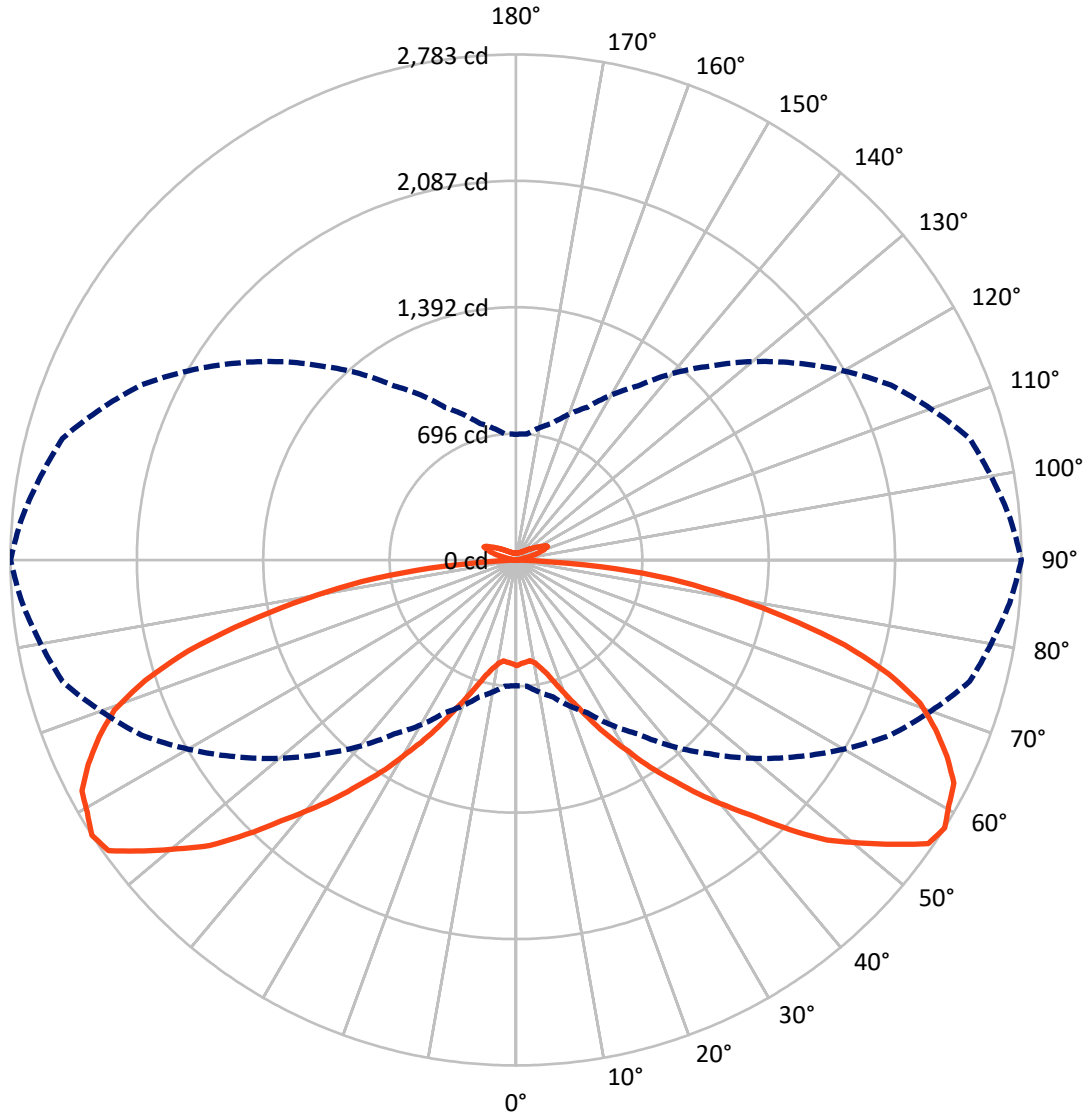
✕ Max cd
 - - - 1/2 Max cd



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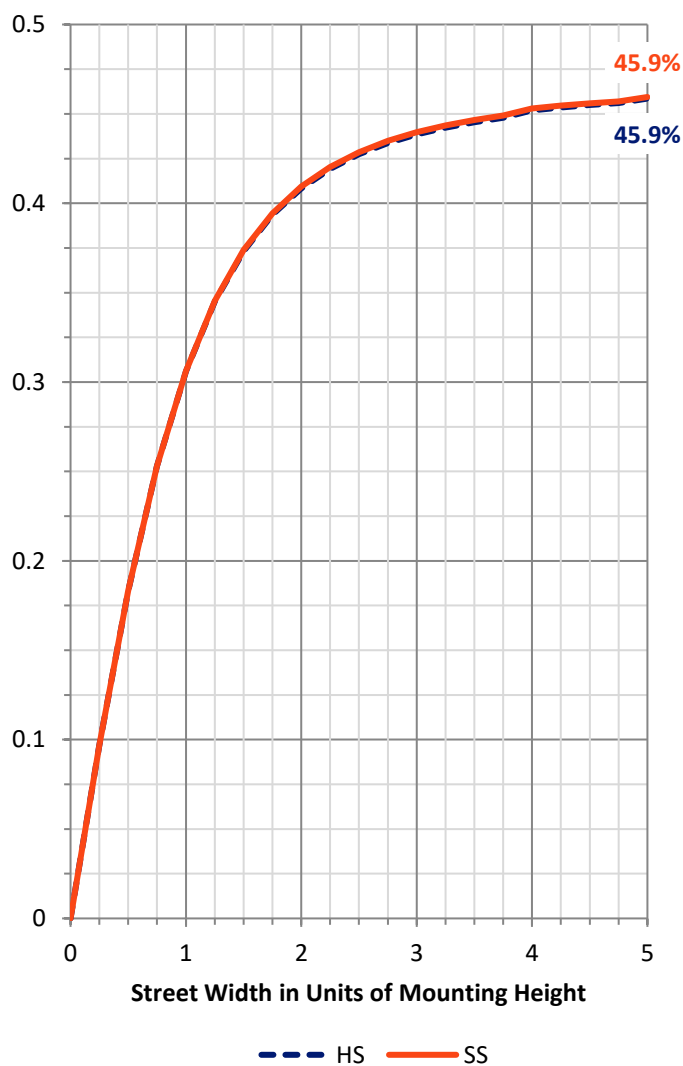
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3252.9	271.5	3524.4
	% Fixture	46.1	3.9	50.0
Street Side	Lumens	3252.9	271.5	3524.4
	% Fixture	46.1	3.9	50.0
Total	Lumens	6505.7	543.0	7048.8
	% Fixture	92.3	7.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	0.8
10°-20°	174.4	2.5
20°-30°	364.0	5.2
30°-40°	652.7	9.3
40°-50°	1043.0	14.8
50°-60°	1427.9	20.3
60°-70°	1472.9	20.9
70°-80°	1047.4	14.9
80°-90°	268.8	3.8
90°-100°	12.1	0.2
100°-110°	123.2	1.7
110°-120°	180.1	2.6
120°-130°	104.5	1.5
130°-140°	55.4	0.8
140°-150°	32.9	0.5
150°-160°	20.2	0.3
160°-170°	11.0	0.2
170°-180°	3.6	0.1
0°-90°	6505.7	92.3
0°-180°	7048.8	100.0

Coefficient of Utilization



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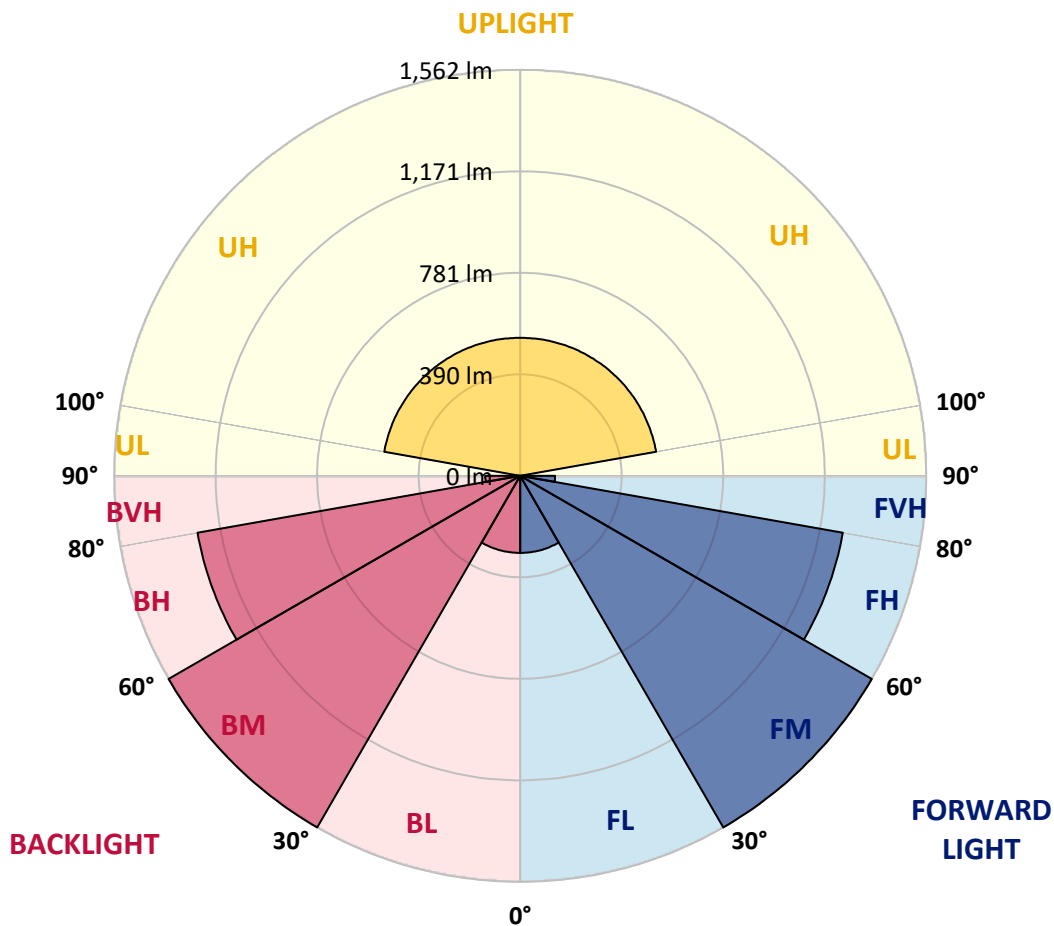
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.5	4.2			
FM (30°-60°)	1561.8	22.2			
FH (60°-80°)	1260.1	17.9			G1/1800
FVH (80°-90°)	134.4	1.9			G2/225
BL (0°-30°)	296.5	4.2	B1/500		
BM (30°-60°)	1561.8	22.2	B2/2500		
BH (60°-80°)	1260.1	17.9	B3/2500		G3/2500
BVH (80°-90°)	134.4	1.9			G2/225
UL (90°-100°)	12.1	0.2		U2/50	
UH (100°-180°)	530.9	7.5		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°	4.6	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	4.6
92.5°	4.6	4.6	4.6	6.5	7.4	6.5	7.4	5.6	5.6	4.6	4.6
95°	5.6	5.6	6.5	8.4	10.2	11.1	11.1	6.5	6.5	5.6	5.6
97.5°	7.4	8.4	8.4	10.2	16.7	30.7	18.6	9.3	9.3	8.4	7.4
100°	12.1	13.0	13.0	23.2	49.2	66.0	47.4	24.2	17.7	13.0	13.0
102.5°	39.0	40.9	50.2	75.3	111.5	101.3	85.5	80.8	55.7	44.6	42.7
105°	99.4	98.5	105.9	125.4	156.1	153.3	141.2	128.2	110.6	102.2	102.2
107.5°	131.0	131.0	137.5	154.2	177.4	207.2	210.0	166.3	145.9	136.6	135.6
110°	147.7	147.7	153.3	167.2	197.9	239.7	237.8	205.3	180.2	168.2	166.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	151.4	152.4	159.8	181.2	214.6	233.2	224.8	211.8	200.7	191.4	189.5
115°	157.0	157.0	165.4	185.8	204.4	211.8	202.5	192.3	184.9	181.2	183.0
117.5°	155.1	157.9	159.8	170.9	183.0	188.6	183.9	170.0	164.4	162.6	159.8
120°	144.0	144.0	145.9	151.4	157.9	160.7	158.9	149.6	144.9	144.0	142.1
122.5°	128.2	129.1	128.2	131.0	135.6	138.4	136.6	129.1	127.3	127.3	125.4
125°	112.4	112.4	111.5	113.3	116.1	115.2	116.1	112.4	111.5	111.5	110.6
127.5°	101.3	100.3	98.5	99.4	100.3	100.3	101.3	97.5	98.5	99.4	98.5
130°	90.1	90.1	88.3	88.3	88.3	86.4	88.3	86.4	87.3	88.3	89.2
132.5°	79.9	79.9	77.1	76.2	76.2	76.2	77.1	76.2	78.0	79.9	79.9
135°	71.5	71.5	68.7	69.7	69.7	68.7	69.7	68.7	70.6	71.5	71.5
137.5°	65.0	65.0	63.2	63.2	63.2	62.2	63.2	63.2	64.1	66.0	66.9
140°	59.5	59.5	58.5	58.5	57.6	58.5	58.5	58.5	59.5	60.4	60.4
142.5°	56.7	55.7	54.8	53.9	54.8	54.8	54.8	53.9	54.8	56.7	56.7
145°	52.0	52.0	51.1	51.1	51.1	52.0	51.1	51.1	52.0	52.0	53.0
147.5°	49.2	49.2	48.3	49.2	49.2	49.2	49.2	48.3	49.2	49.2	50.2
150°	48.3	47.4	46.5	47.4	47.4	46.5	46.5	46.5	46.5	47.4	47.4
152.5°	45.5	45.5	44.6	45.5	44.6	44.6	44.6	44.6	44.6	45.5	46.5
155°	43.7	43.7	42.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
157.5°	41.8	42.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.7	42.7
160°	40.9	40.9	40.9	40.9	39.9	39.9	39.9	40.9	40.9	40.9	41.8
162.5°	39.9	39.9	39.9	39.9	39.0	39.0	39.0	39.0	39.9	39.9	40.9
165°	39.9	39.0	39.0	39.0	38.1	38.1	38.1	38.1	39.0	39.9	39.0
167.5°	38.1	38.1	38.1	38.1	38.1	37.2	37.2	38.1	38.1	38.1	39.0
170°	38.1	38.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	38.1
172.5°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	37.2	37.2	38.1	38.1
175°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	38.1	38.1	38.1	37.2
177.5°	38.1	38.1	38.1	38.1	37.2	38.1	38.1	38.1	38.1	38.1	38.1
180°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1

(END OF REPORT)