

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: P833908

Luminaire Tested: **TTN-D3-735-U-WQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833908
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-WQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6969.9 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G2

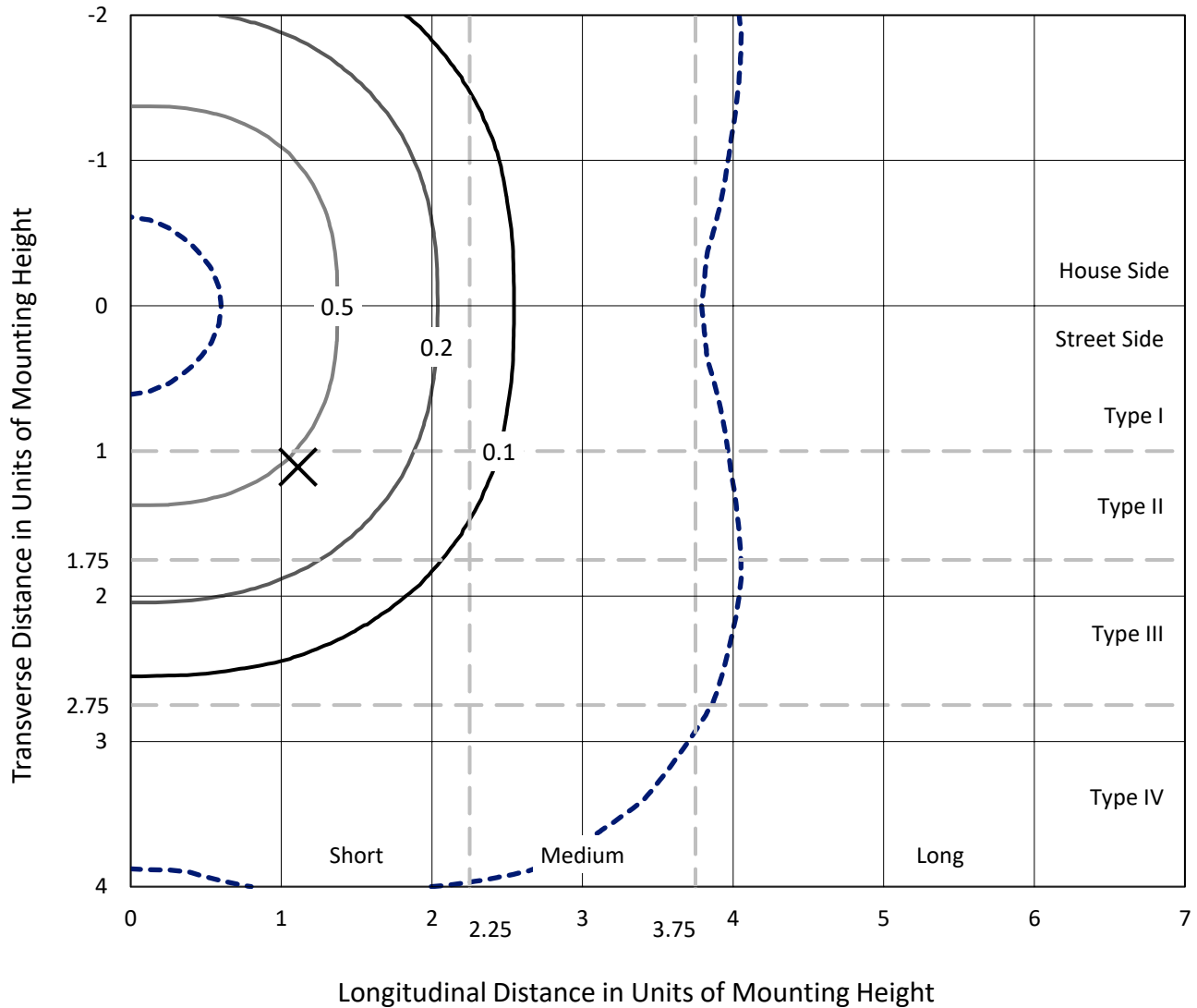
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

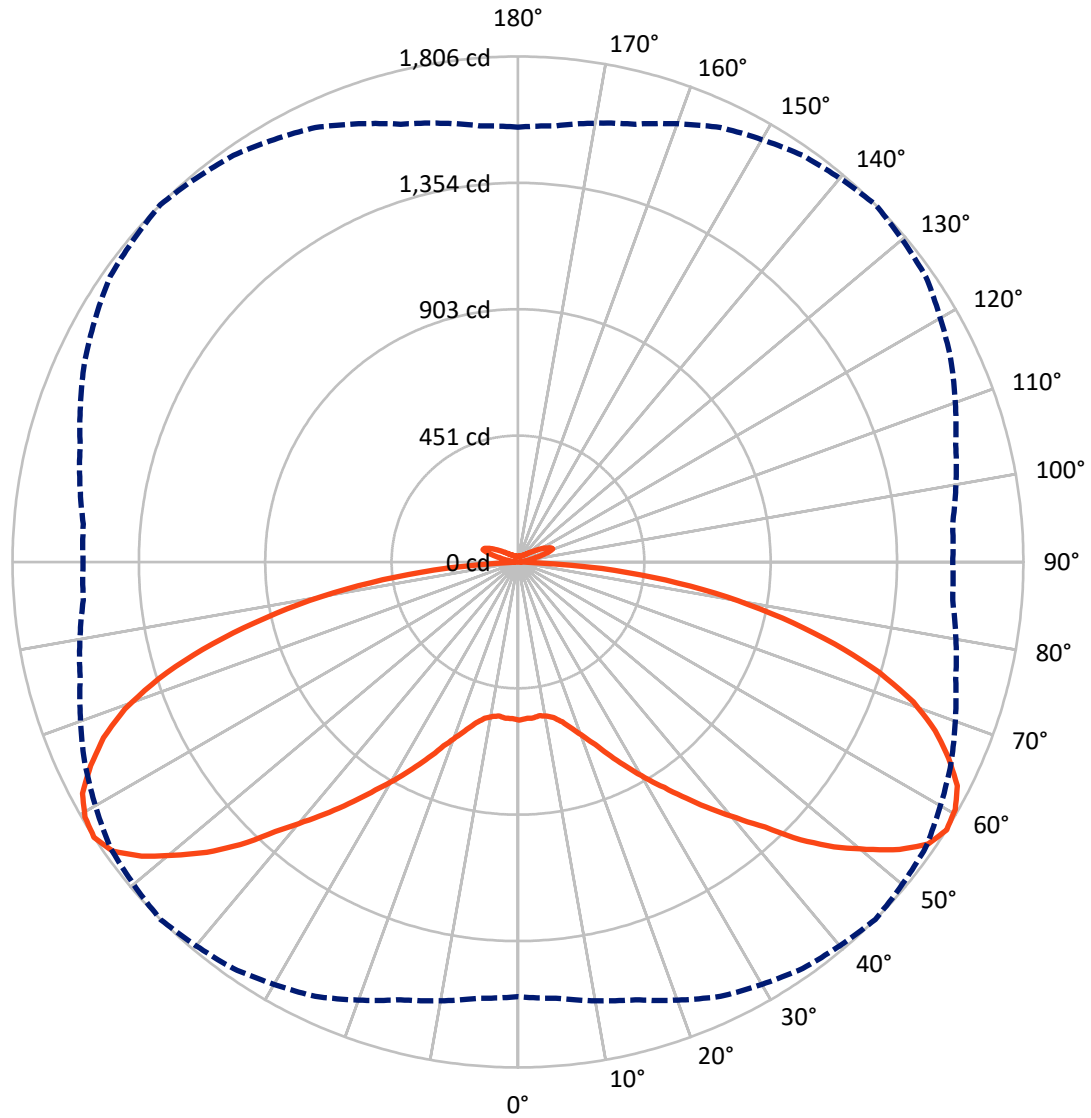
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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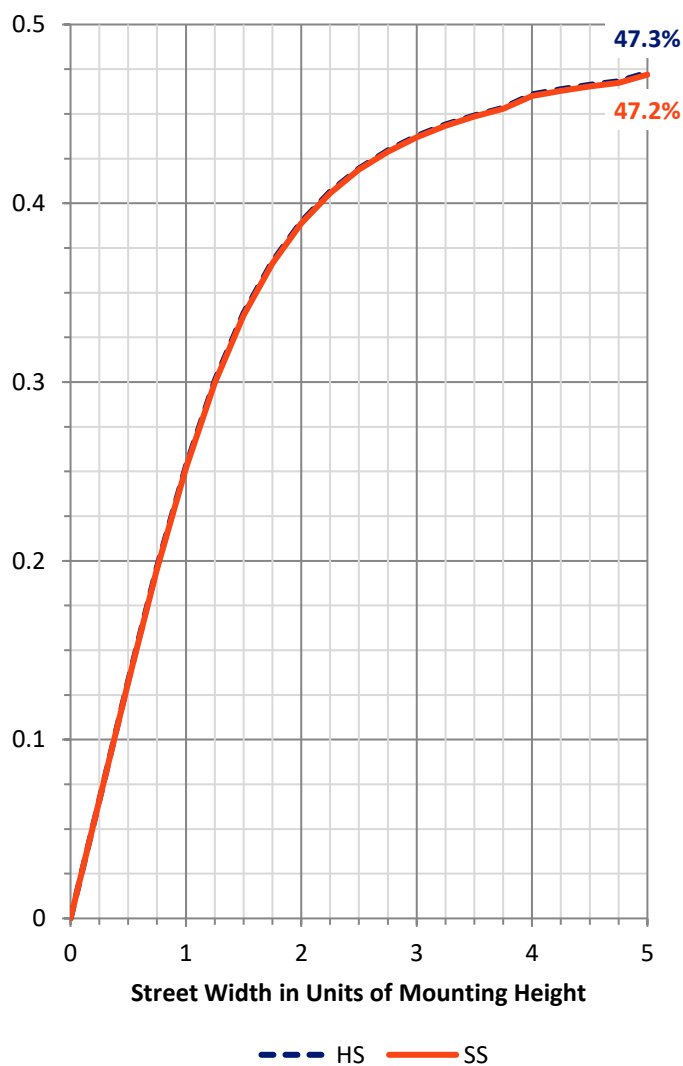
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3334.7	150.2	3485.0
	% Fixture	47.8	2.2	50.0
Street Side	Lumens	3334.7	150.2	3485.0
	% Fixture	47.8	2.2	50.0
Total	Lumens	6669.4	300.5	6969.9
	% Fixture	95.7	4.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.8
10°-20°	169.6	2.4
20°-30°	355.8	5.1
30°-40°	645.4	9.3
40°-50°	1052.2	15.1
50°-60°	1472.7	21.1
60°-70°	1537.5	22.1
70°-80°	1098.5	15.8
80°-90°	284.6	4.1
90°-100°	6.7	0.1
100°-110°	68.2	1.0
110°-120°	99.6	1.4
120°-130°	57.8	0.8
130°-140°	30.6	0.4
140°-150°	18.2	0.3
150°-160°	11.2	0.2
160°-170°	6.1	0.1
170°-180°	2.0	0.0
0°-90°	6669.4	95.7
0°-180°	6969.9	100.0

Coefficient of Utilization



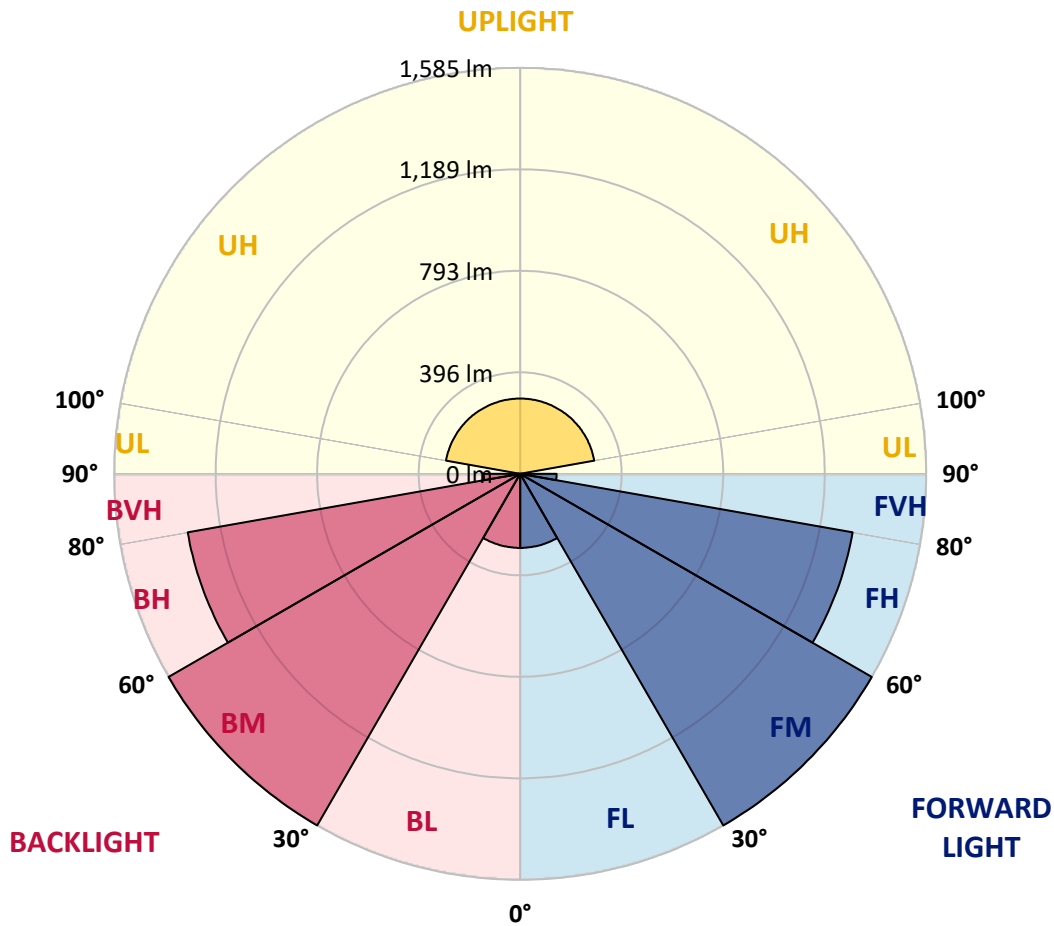
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.2	4.1			
FM (30°-60°)	1585.2	22.7			
FH (60°-80°)	1318.0	18.9			G1/1800
FVH (80°-90°)	142.3	2.0			G2/225
BL (0°-30°)	289.2	4.1	B1/500		
BM (30°-60°)	1585.2	22.7	B2/2500		
BH (60°-80°)	1318.0	18.9	B3/2500		G1/1800
BVH (80°-90°)	142.3	2.0			G2/225
UL (90°-100°)	6.7	0.1		U1/10	
UH (100°-180°)	293.8	4.2		U3/500	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
5°	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
7.5°	548.8	548.8	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3
10°	548.8	548.8	554.3	554.3	559.8	559.8	559.8	554.3	554.3	548.8	548.8
12.5°	559.8	559.8	559.8	565.3	570.8	570.8	570.8	565.3	565.3	559.8	559.8
15°	576.3	581.8	581.8	587.2	592.7	592.7	592.7	587.2	587.2	581.8	581.8
17.5°	609.2	609.2	609.2	614.7	620.2	625.7	625.7	614.7	614.7	609.2	614.7
20°	642.1	647.6	647.6	653.1	658.6	664.1	658.6	653.1	647.6	647.6	647.6
22.5°	691.5	691.5	697.0	697.0	708.0	708.0	708.0	697.0	697.0	697.0	697.0
25°	746.4	746.4	751.9	757.4	768.4	768.4	762.9	751.9	751.9	751.9	757.4
27.5°	812.3	812.3	817.7	817.7	828.7	828.7	823.2	817.7	817.7	817.7	823.2
30°	872.6	872.6	883.6	889.1	894.6	894.6	894.6	883.6	883.6	878.1	878.1
32.5°	927.5	933.0	938.5	955.0	965.9	960.4	965.9	955.0	944.0	938.5	938.5
35°	987.9	993.4	1004.3	1020.8	1037.3	1037.3	1037.3	1020.8	1009.8	998.9	1004.3
37.5°	1059.2	1059.2	1075.7	1092.2	1114.1	1119.6	1114.1	1097.6	1081.2	1070.2	1070.2
40°	1136.1	1136.1	1152.5	1169.0	1196.4	1201.9	1196.4	1174.5	1152.5	1147.0	1147.0
42.5°	1212.9	1212.9	1234.9	1251.3	1284.2	1295.2	1284.2	1256.8	1234.9	1218.4	1223.9
45°	1295.2	1300.7	1328.2	1361.1	1399.5	1416.0	1399.5	1366.6	1333.6	1300.7	1300.7
47.5°	1388.5	1388.5	1421.5	1459.9	1503.8	1520.2	1498.3	1465.4	1421.5	1394.0	1394.0
50°	1448.9	1454.4	1498.3	1547.7	1602.6	1613.5	1597.1	1547.7	1498.3	1459.9	1454.4
52.5°	1509.3	1514.8	1564.1	1635.5	1690.4	1706.8	1684.9	1635.5	1564.1	1514.8	1514.8
55°	1547.7	1558.7	1613.5	1690.4	1750.7	1778.2	1745.3	1690.4	1608.1	1553.2	1547.7
57.5°	1553.2	1564.1	1619.0	1712.3	1772.7	1805.6	1778.2	1706.8	1619.0	1558.7	1553.2
60°	1542.2	1547.7	1602.6	1701.4	1772.7	1794.7	1772.7	1695.9	1597.1	1547.7	1536.7
62.5°	1514.8	1525.7	1580.6	1662.9	1745.3	1761.7	1739.8	1657.4	1575.1	1514.8	1503.8
65°	1426.9	1437.9	1520.2	1602.6	1673.9	1690.4	1673.9	1602.6	1514.8	1426.9	1416.0
67.5°	1328.2	1333.6	1416.0	1514.8	1580.6	1608.1	1580.6	1520.2	1410.5	1328.2	1317.2
70°	1223.9	1229.4	1295.2	1399.5	1465.4	1498.3	1470.8	1405.0	1289.7	1218.4	1212.9
72.5°	1103.1	1103.1	1169.0	1251.3	1317.2	1350.1	1328.2	1245.8	1158.0	1086.7	1075.7
75°	938.5	944.0	1015.3	1075.7	1147.0	1169.0	1147.0	1081.2	998.9	927.5	916.5
77.5°	768.4	773.8	834.2	883.6	949.5	965.9	949.5	894.6	817.7	757.4	751.9
80°	581.8	587.2	636.6	680.5	735.4	757.4	740.9	686.0	625.7	570.8	554.3
82.5°	378.7	384.2	433.6	466.5	515.9	532.4	521.4	472.0	422.6	367.7	362.2
85°	170.1	175.6	219.5	247.0	285.4	301.9	290.9	247.0	208.6	159.2	148.2
87.5°	16.5	16.5	16.5	16.5	16.5	22.0	22.0	16.5	16.5	16.5	16.5
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	129.0	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	117.2	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	104.4	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	88.9	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	76.6	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	63.7	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	55.5	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	47.8	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	42.2	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	38.0	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	34.4	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	32.4	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	30.3	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	28.8	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	27.2	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	25.7	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	24.7	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	22.1	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	21.6	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	21.1	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	20.6	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)