

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: P833905

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833905
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-SG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6508.9 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

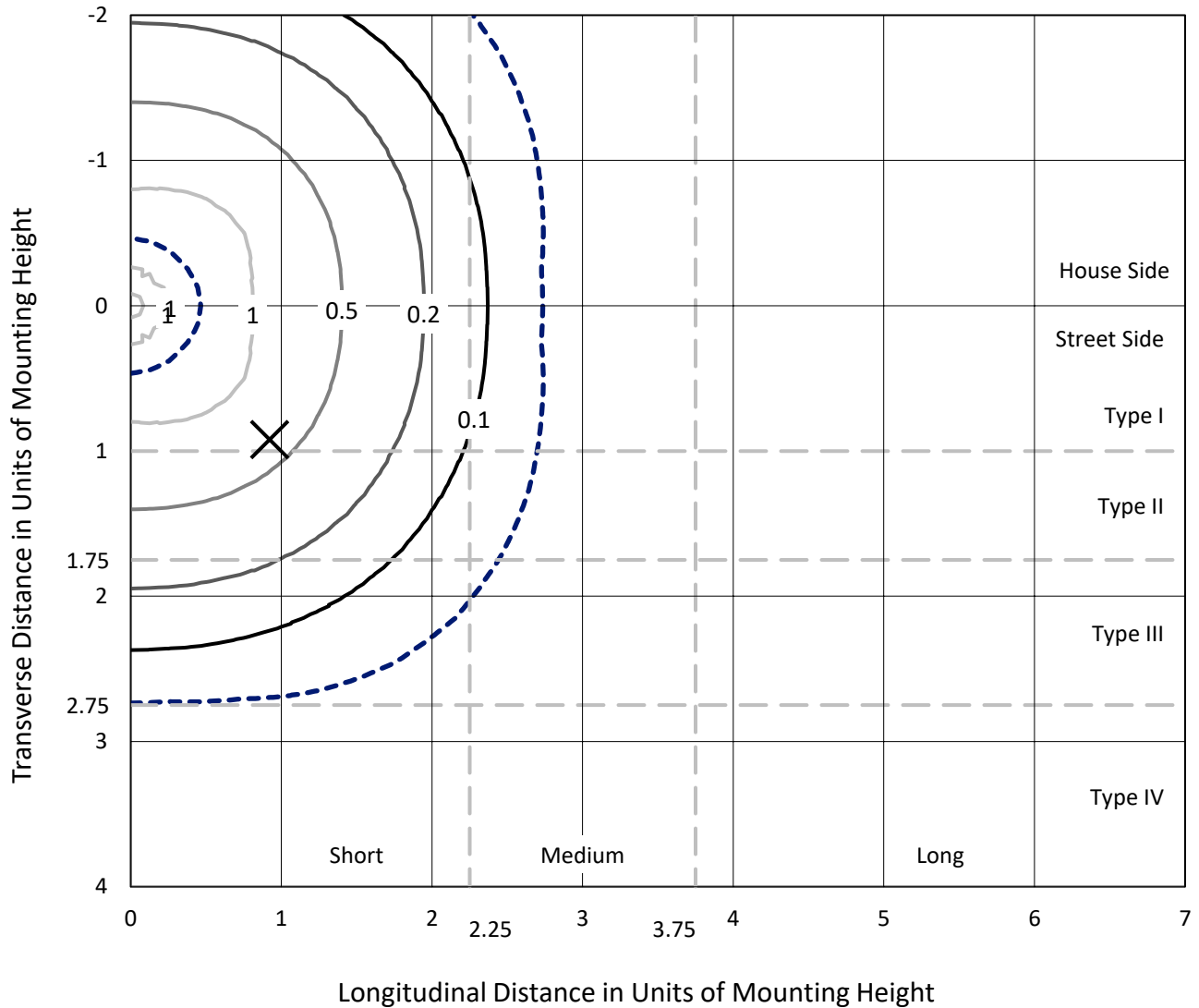
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

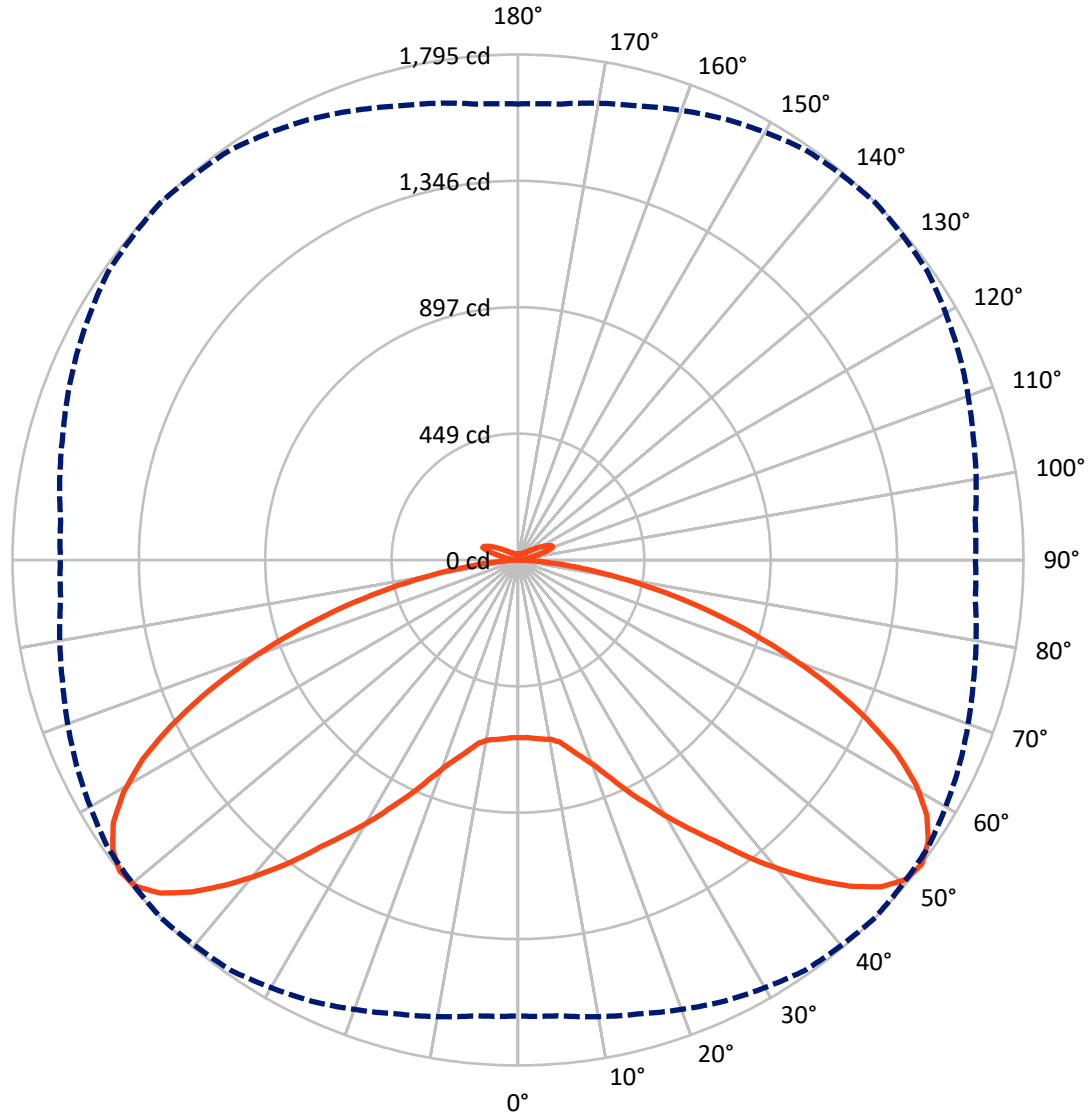
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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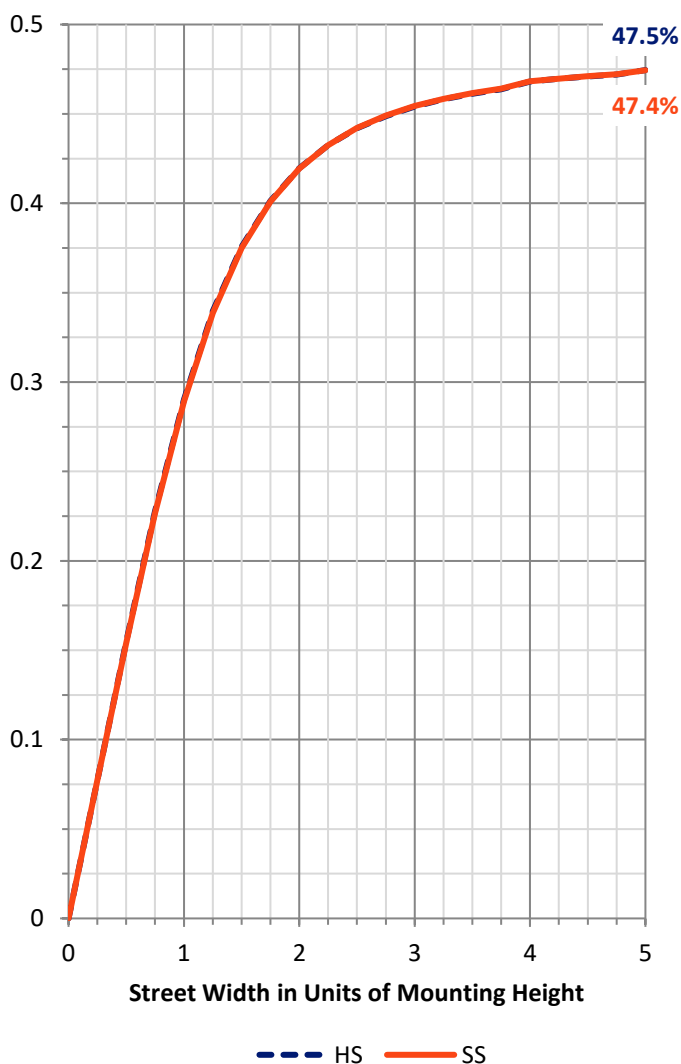
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3104.2	150.2	3254.4
	% Fixture	47.7	2.3	50.0
Street Side	Lumens	3104.2	150.2	3254.4
	% Fixture	47.7	2.3	50.0
Total	Lumens	6208.4	300.5	6508.9
	% Fixture	95.4	4.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	0.9
10°-20°	200.3	3.1
20°-30°	422.8	6.5
30°-40°	772.3	11.9
40°-50°	1229.5	18.9
50°-60°	1486.7	22.8
60°-70°	1250.1	19.2
70°-80°	662.6	10.2
80°-90°	123.0	1.9
90°-100°	6.7	0.1
100°-110°	68.2	1.0
110°-120°	99.6	1.5
120°-130°	57.8	0.9
130°-140°	30.6	0.5
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°	6208.4	95.4
0°-180°	6508.9	100.0

Coefficient of Utilization



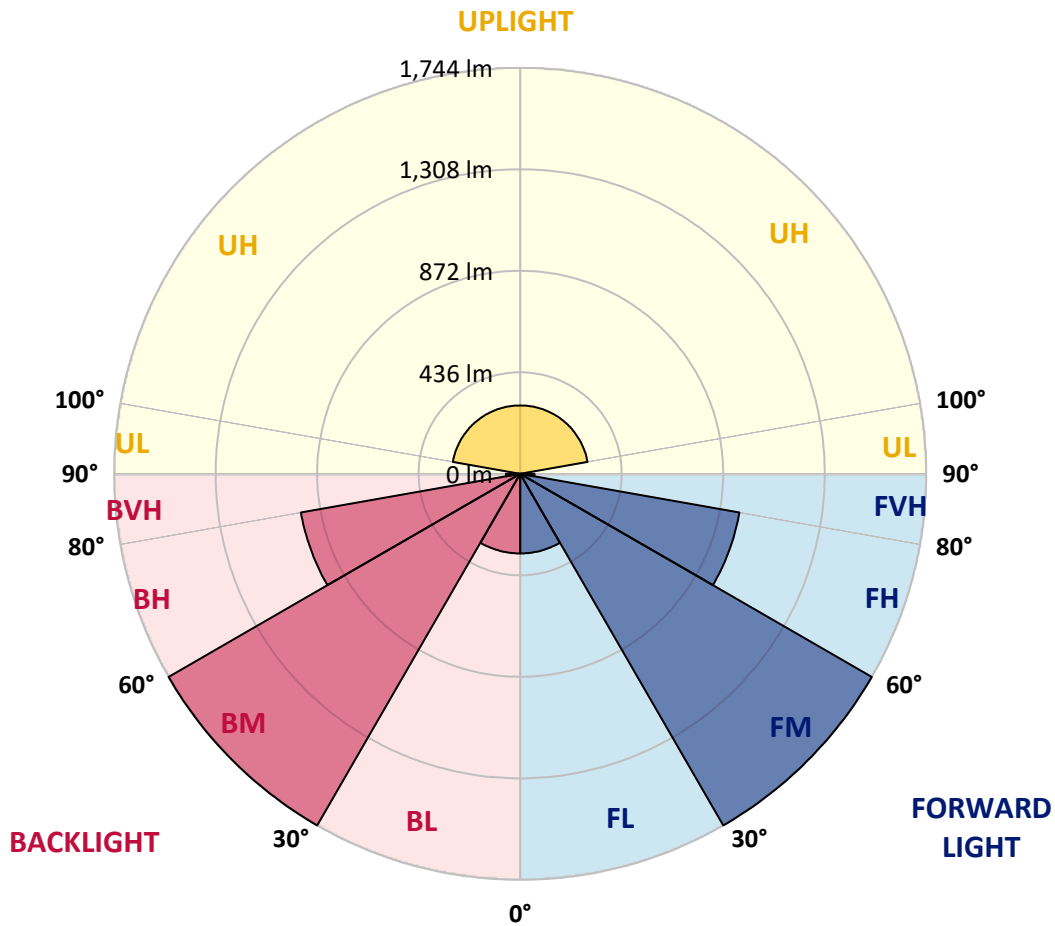
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.0	5.3			
FM (30°-60°)	1744.3	26.8			
FH (60°-80°)	956.4	14.7			G1/1800
FVH (80°-90°)	61.5	0.9			G1/100
BL (0°-30°)	342.0	5.3	B1/500		
BM (30°-60°)	1744.3	26.8	B2/2500		
BH (60°-80°)	956.4	14.7	B2/1000		G1/1800
BVH (80°-90°)	61.5	0.9			G1/100
UL (90°-100°)	6.7	0.1		U1/10	
UH (100°-180°)	293.8	4.5		U3/500	

BUG Rating: B2-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
2.5°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
5°	636.6	636.6	631.2	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
7.5°	636.6	636.6	636.6	642.1	642.1	642.1	642.1	636.6	636.6	636.6	636.6
10°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
12.5°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
15°	691.5	691.5	691.5	691.5	697.0	697.0	697.0	691.5	691.5	691.5	691.5
17.5°	724.5	724.5	729.9	729.9	735.4	735.4	735.4	729.9	724.5	729.9	724.5
20°	773.8	773.8	773.8	779.3	784.8	779.3	784.8	773.8	773.8	773.8	773.8
22.5°	828.7	828.7	828.7	834.2	839.7	839.7	839.7	828.7	828.7	828.7	828.7
25°	894.6	894.6	894.6	900.1	905.6	911.1	911.1	900.1	894.6	894.6	889.1
27.5°	960.4	960.4	971.4	976.9	982.4	982.4	982.4	971.4	965.9	965.9	965.9
30°	1037.3	1037.3	1048.3	1053.7	1064.7	1064.7	1064.7	1048.3	1042.8	1037.3	1037.3
32.5°	1108.6	1114.1	1125.1	1136.1	1147.0	1147.0	1152.5	1130.6	1119.6	1114.1	1114.1
35°	1185.5	1191.0	1201.9	1218.4	1229.4	1234.9	1240.3	1218.4	1201.9	1196.4	1196.4
37.5°	1273.3	1278.8	1295.2	1311.7	1333.6	1344.6	1350.1	1317.2	1289.7	1278.8	1278.8
40°	1372.1	1377.6	1394.0	1416.0	1437.9	1448.9	1454.4	1421.5	1394.0	1383.0	1377.6
42.5°	1454.4	1465.4	1481.8	1514.8	1536.7	1553.2	1553.2	1514.8	1481.8	1465.4	1465.4
45°	1531.2	1542.2	1569.6	1602.6	1635.5	1652.0	1646.5	1608.1	1569.6	1547.7	1542.2
47.5°	1591.6	1602.6	1635.5	1673.9	1717.8	1734.3	1728.8	1684.9	1635.5	1608.1	1602.6
50°	1624.5	1630.0	1668.4	1723.3	1767.2	1783.7	1772.7	1728.8	1673.9	1635.5	1630.0
52.5°	1619.0	1624.5	1668.4	1728.8	1778.2	1794.7	1778.2	1728.8	1673.9	1630.0	1624.5
55°	1586.1	1591.6	1635.5	1701.4	1750.8	1767.2	1750.8	1701.4	1641.0	1597.1	1591.6
57.5°	1525.7	1531.2	1575.1	1641.0	1695.9	1712.3	1690.4	1635.5	1575.1	1531.2	1531.2
60°	1437.9	1443.4	1487.3	1558.7	1608.1	1624.5	1597.1	1553.2	1492.8	1443.4	1437.9
62.5°	1322.7	1322.7	1372.1	1443.4	1487.3	1509.3	1481.8	1432.4	1377.6	1322.7	1328.2
65°	1185.5	1180.0	1229.4	1295.2	1344.6	1361.1	1333.6	1289.7	1234.9	1185.5	1185.5
67.5°	1042.8	1042.8	1081.2	1136.1	1180.0	1196.4	1169.0	1130.6	1086.7	1042.8	1042.8
70°	889.1	889.1	916.5	971.4	1009.8	1020.8	1004.4	965.9	927.5	889.1	889.1
72.5°	735.4	729.9	757.4	801.3	834.2	845.2	828.7	806.8	762.9	735.4	735.4
75°	581.8	576.3	592.7	631.2	658.6	669.6	653.1	636.6	603.7	581.8	581.8
77.5°	433.6	428.1	444.5	477.5	493.9	499.4	488.5	477.5	450.0	433.6	433.6
80°	296.4	290.9	301.9	323.8	340.3	340.3	334.8	329.3	307.3	296.4	301.9
82.5°	175.6	170.1	181.1	197.6	208.6	203.1	203.1	197.6	181.1	175.6	175.6
85°	76.8	71.3	76.8	87.8	98.8	93.3	93.3	93.3	82.3	76.8	76.8
87.5°	11.0	11.0	11.0	16.5	22.0	16.5	16.5	16.5	11.0	11.0	11.0
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)