

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P833902

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

Issue Date: 5/15/2024

Report Generated By 670246001

Test Information

Test Method: LM-79-08
Report Number: P833902
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-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6634.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G1

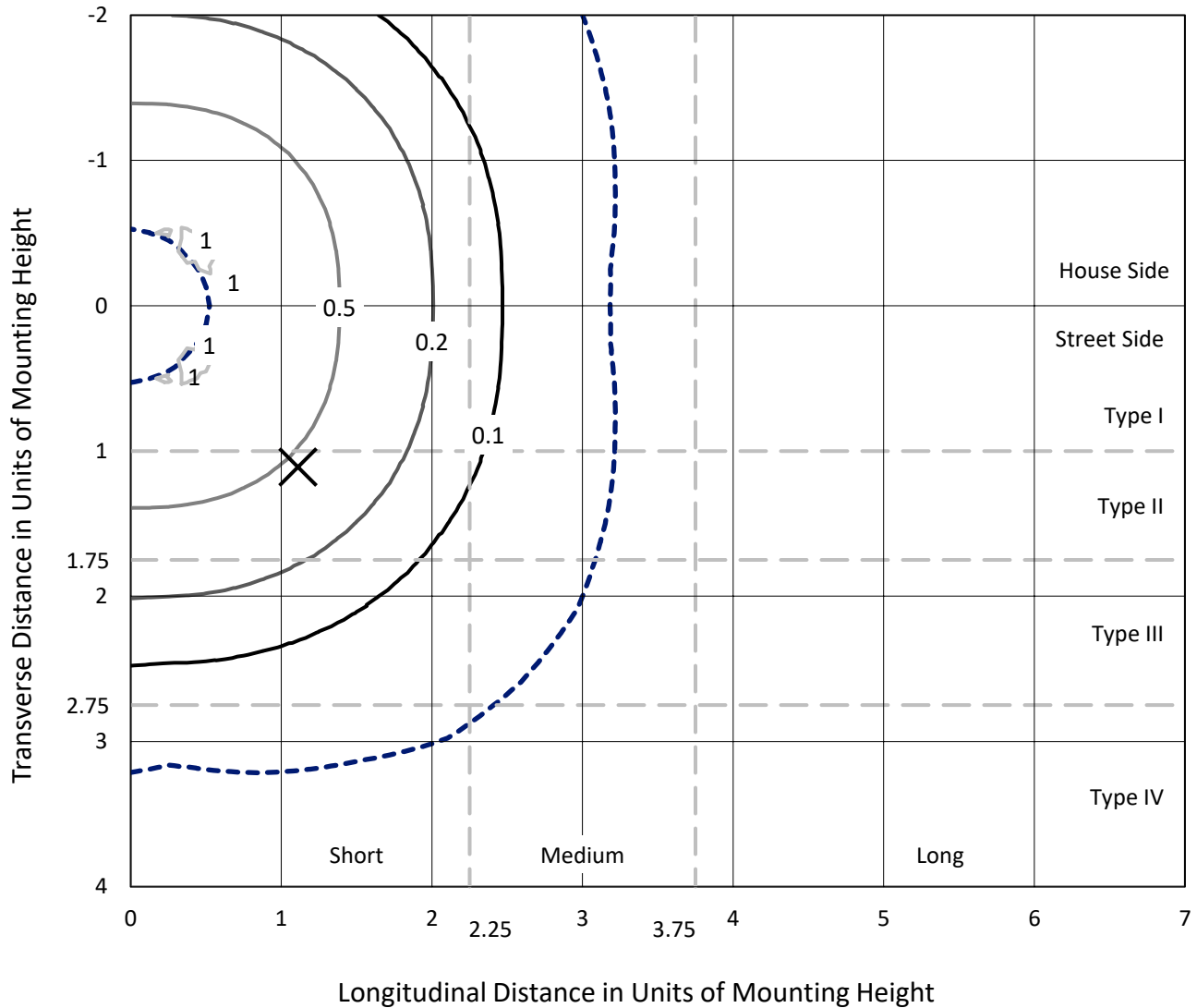
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

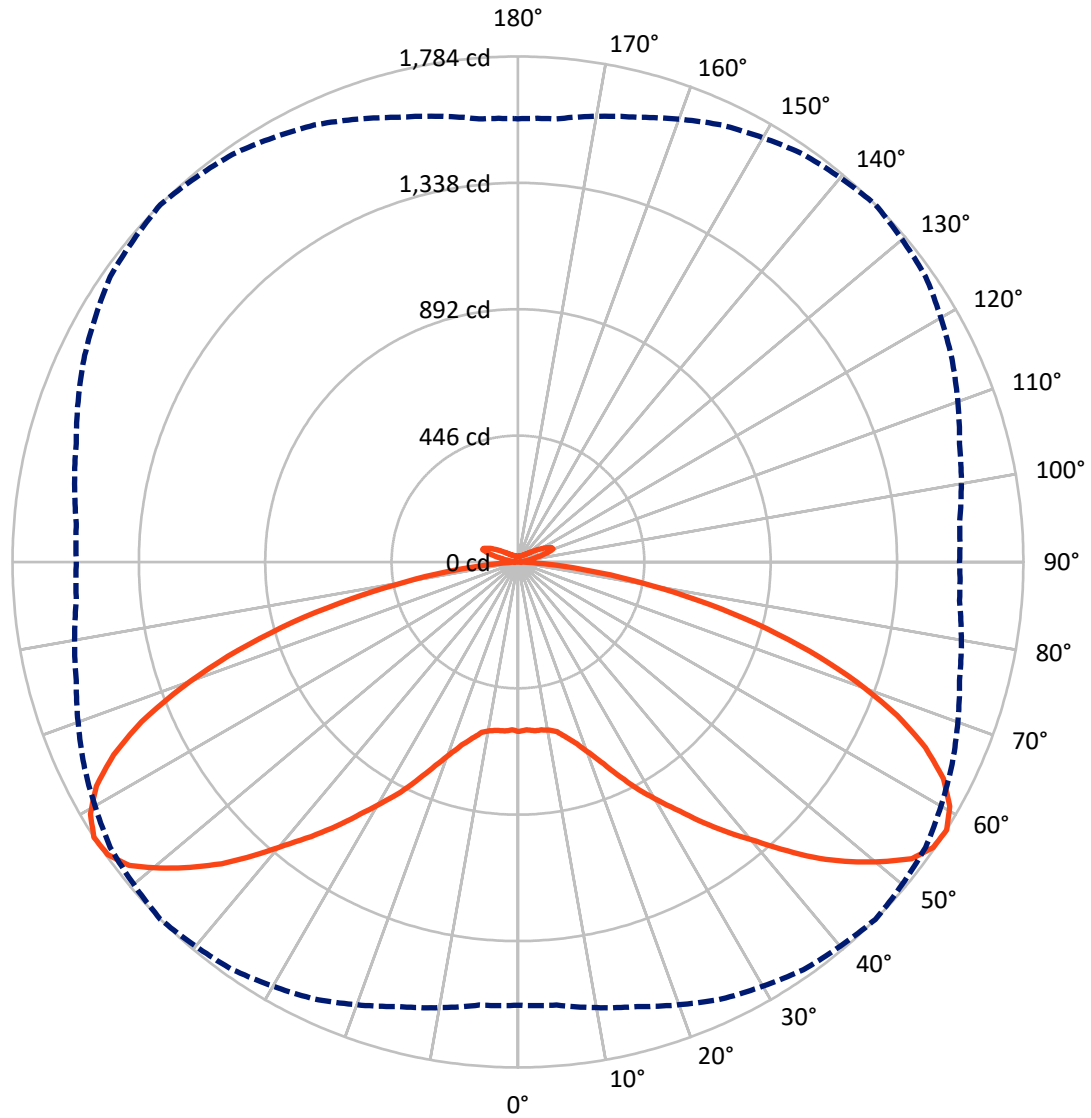
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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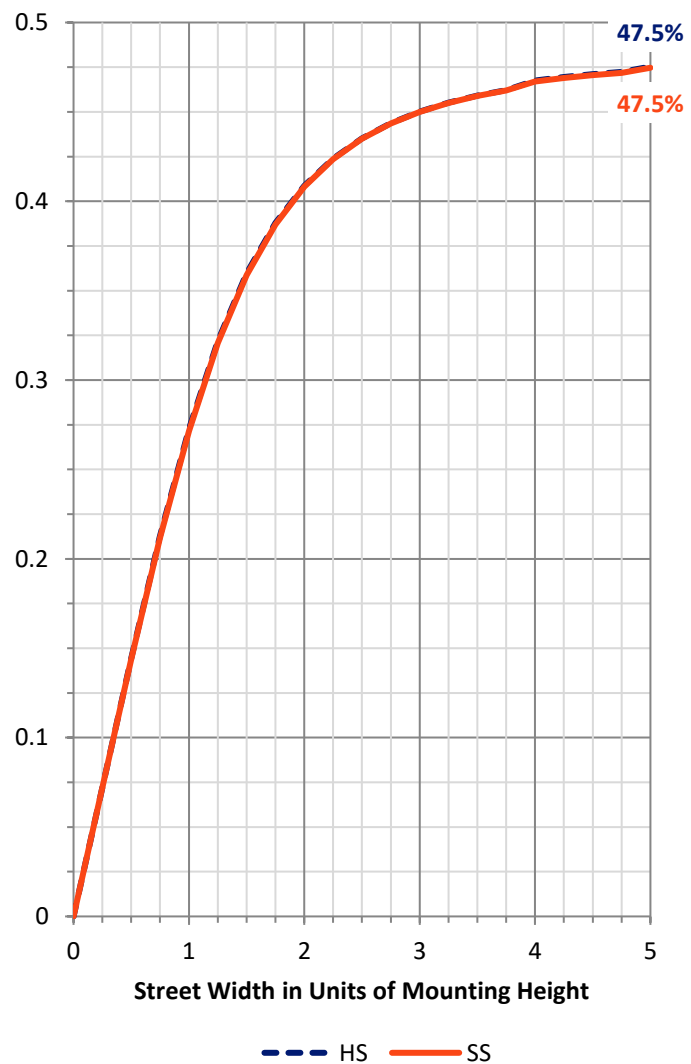
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.2	150.2	3317.4
	% Fixture	47.7	2.3	50.0
Street Side	Lumens	3167.2	150.2	3317.4
	% Fixture	47.7	2.3	50.0
Total	Lumens	6334.4	300.5	6634.9
	% Fixture	95.5	4.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	0.9
10°-20°	184.5	2.8
20°-30°	388.2	5.9
30°-40°	699.8	10.5
40°-50°	1112.4	16.8
50°-60°	1484.1	22.4
60°-70°	1433.9	21.6
70°-80°	830.9	12.5
80°-90°	143.6	2.2
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°	6334.4	95.5
0°-180°	6634.9	100.0



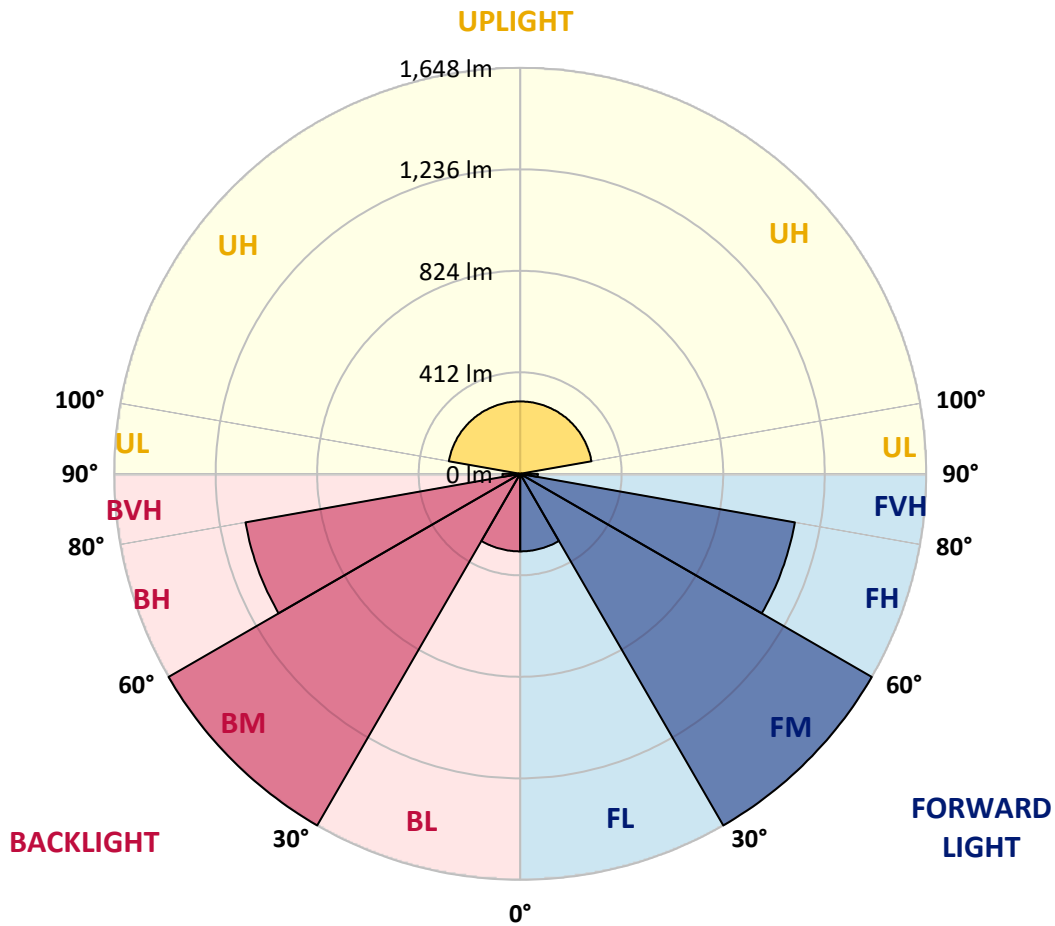
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.9	4.7			
FM (30°-60°)	1648.1	24.8			
FH (60°-80°)	1132.4	17.1			G1/1800
FVH (80°-90°)	71.8	1.1			G1/100
BL (0°-30°)	314.9	4.7	B1/500		
BM (30°-60°)	1648.1	24.8	B2/2500		
BH (60°-80°)	1132.4	17.1	B3/2500		G1/1800
BVH (80°-90°)	71.8	1.1			G1/100
UL (90°-100°)	6.7	0.1		U1/10	
UH (100°-180°)	293.8	4.4		U3/500	

BUG Rating: B3-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9
5°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
7.5°	592.9	592.9	598.4	598.4	598.4	598.4	598.4	598.4	598.4	592.9	592.9
10°	598.4	598.4	598.4	603.8	603.8	603.8	603.8	603.8	598.4	598.4	598.4
12.5°	609.3	609.3	614.8	614.8	614.8	614.8	614.8	614.8	614.8	609.3	609.3
15°	636.8	636.8	636.8	642.3	642.3	642.3	642.3	642.3	636.8	636.8	636.8
17.5°	664.2	664.2	669.7	669.7	675.2	675.2	675.2	669.7	669.7	669.7	669.7
20°	702.7	702.7	708.1	708.1	713.6	719.1	719.1	713.6	708.1	708.1	708.1
22.5°	752.1	757.6	757.6	757.6	763.0	774.0	768.5	763.0	757.6	757.6	757.6
25°	812.4	817.9	823.4	823.4	828.9	839.9	839.9	823.4	823.4	823.4	823.4
27.5°	883.8	889.3	894.8	894.8	900.3	911.3	905.8	894.8	894.8	889.3	889.3
30°	949.7	955.2	960.7	966.2	971.6	977.1	977.1	966.2	960.7	955.2	949.7
32.5°	1015.6	1015.6	1026.5	1037.5	1048.5	1048.5	1054.0	1037.5	1026.5	1015.6	1010.1
35°	1081.4	1086.9	1092.4	1108.9	1125.3	1130.8	1125.3	1108.9	1092.4	1081.4	1081.4
37.5°	1152.8	1158.3	1163.8	1185.7	1202.2	1213.2	1202.2	1185.7	1163.8	1152.8	1147.3
40°	1229.6	1235.1	1240.6	1268.1	1284.5	1295.5	1279.1	1262.6	1240.6	1229.6	1224.2
42.5°	1301.0	1312.0	1323.0	1355.9	1383.4	1394.3	1377.9	1350.4	1328.5	1301.0	1295.5
45°	1388.8	1399.8	1416.3	1449.2	1476.7	1493.1	1471.2	1443.7	1410.8	1388.8	1383.4
47.5°	1460.2	1471.2	1487.7	1531.6	1570.0	1581.0	1559.0	1526.1	1482.2	1454.7	1449.2
50°	1515.1	1526.1	1559.0	1608.4	1652.3	1663.3	1641.4	1597.4	1548.0	1509.6	1504.1
52.5°	1559.0	1570.0	1608.4	1674.3	1723.7	1740.2	1712.7	1663.3	1597.4	1553.5	1548.0
55°	1581.0	1586.5	1635.9	1707.2	1756.6	1778.6	1751.2	1696.3	1624.9	1575.5	1570.0
57.5°	1564.5	1570.0	1624.9	1701.7	1756.6	1784.1	1756.6	1690.8	1613.9	1564.5	1559.0
60°	1531.6	1531.6	1581.0	1668.8	1734.7	1751.2	1723.7	1657.8	1575.5	1526.1	1520.6
62.5°	1471.2	1465.7	1526.1	1602.9	1668.8	1685.3	1663.3	1597.4	1515.1	1465.7	1460.2
65°	1355.9	1344.9	1432.8	1504.1	1564.5	1581.0	1564.5	1504.1	1427.3	1350.4	1339.4
67.5°	1218.7	1202.2	1284.5	1366.9	1421.8	1443.7	1421.8	1372.4	1284.5	1207.7	1202.2
70°	1075.9	1059.5	1125.3	1196.7	1257.1	1268.1	1246.1	1196.7	1114.4	1065.0	1065.0
72.5°	905.8	889.3	949.7	1004.6	1065.0	1075.9	1054.0	1010.1	949.7	900.3	894.8
75°	719.1	702.7	757.6	801.5	861.9	867.3	856.4	807.0	757.6	708.1	708.1
77.5°	532.5	516.0	559.9	598.4	647.8	647.8	642.3	603.8	559.9	527.0	527.0
80°	351.3	340.3	378.8	395.2	439.2	439.2	433.7	406.2	373.3	351.3	345.8
82.5°	197.6	186.6	219.6	225.1	258.0	258.0	252.5	230.6	208.6	192.1	192.1
85°	76.9	65.9	87.8	93.3	109.8	109.8	104.3	98.8	82.3	71.4	71.4
87.5°	5.5	5.5	11.0	11.0	16.5	16.5	16.5	11.0	11.0	5.5	5.5
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)