

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: P833326

Luminaire Tested: **TTN-D1-830-U-RW-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833326
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-D1-830-U-RW-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3049.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B2 - U3 - G2

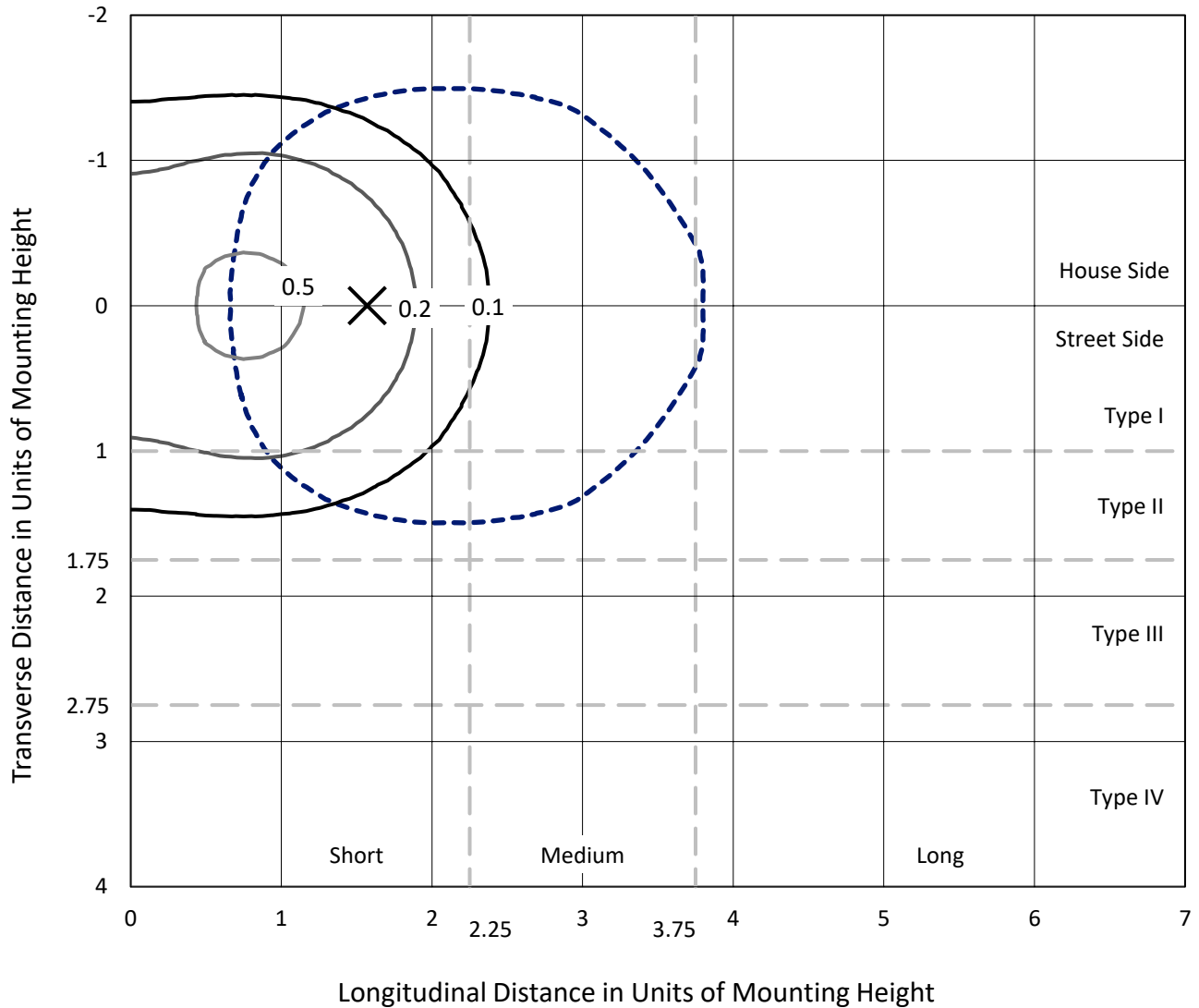
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

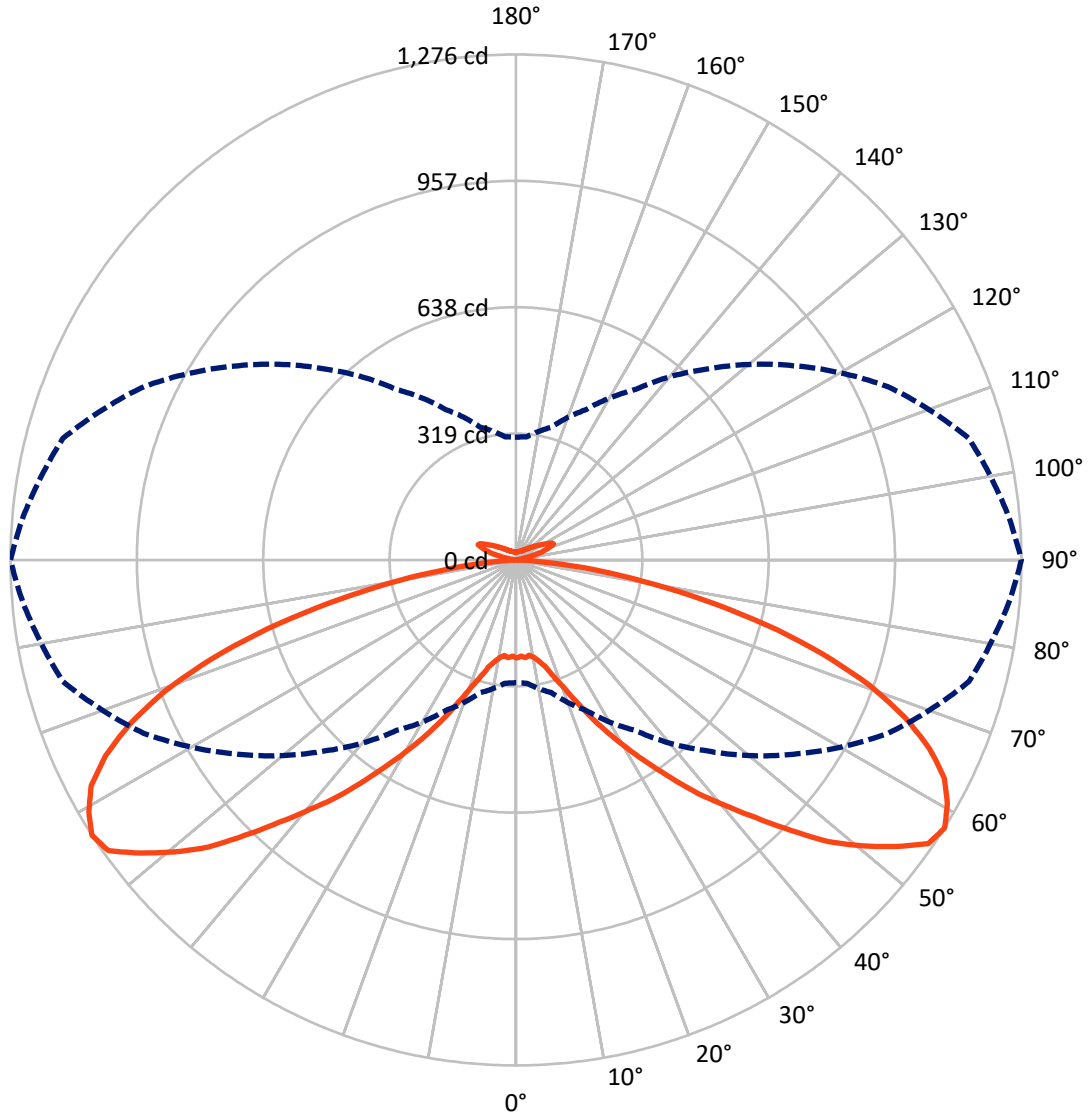
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: TTN-D1-830-U-RW-CG-UPL1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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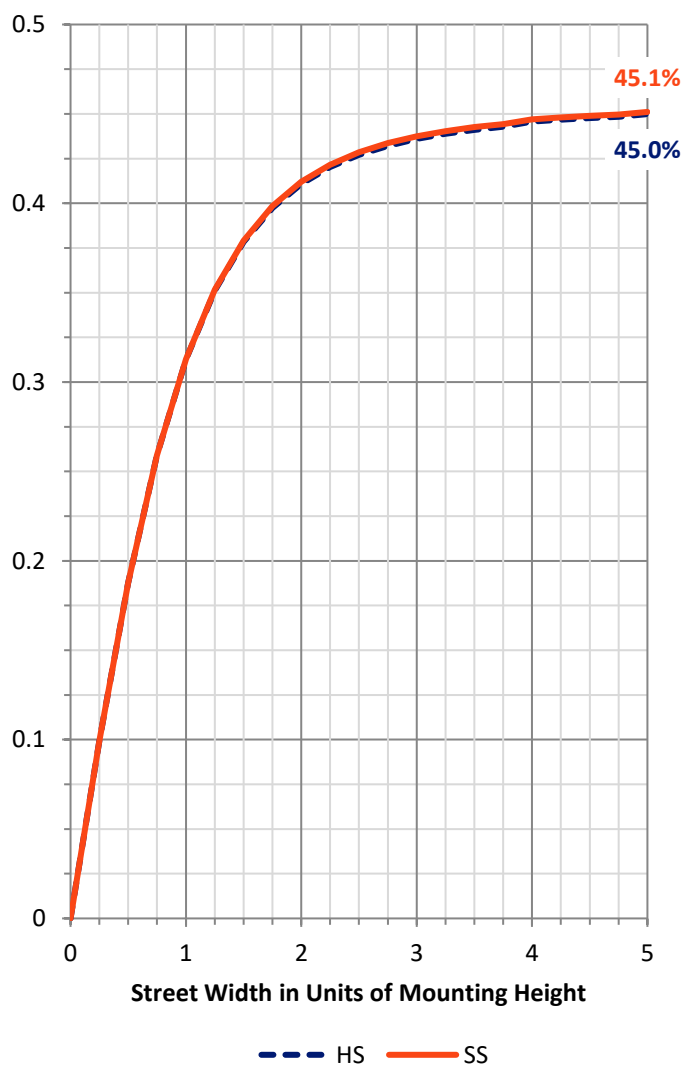
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1377.2	147.7	1524.9
	% Fixture	45.2	4.8	50.0
Street Side	Lumens	1377.2	147.7	1524.9
	% Fixture	45.2	4.8	50.0
Total	Lumens	2754.4	295.5	3049.9
	% Fixture	90.3	9.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	0.8
10°-20°	76.1	2.5
20°-30°	162.0	5.3
30°-40°	298.5	9.8
40°-50°	480.6	15.8
50°-60°	650.5	21.3
60°-70°	632.5	20.7
70°-80°	368.0	12.1
80°-90°	62.6	2.1
90°-100°	6.6	0.2
100°-110°	67.0	2.2
110°-120°	98.0	3.2
120°-130°	56.9	1.9
130°-140°	30.1	1.0
140°-150°	17.9	0.6
150°-160°	11.0	0.4
160°-170°	6.0	0.2
170°-180°	2.0	0.1
0°-90°	2754.4	90.3
0°-180°	3049.9	100.0

Coefficient of Utilization

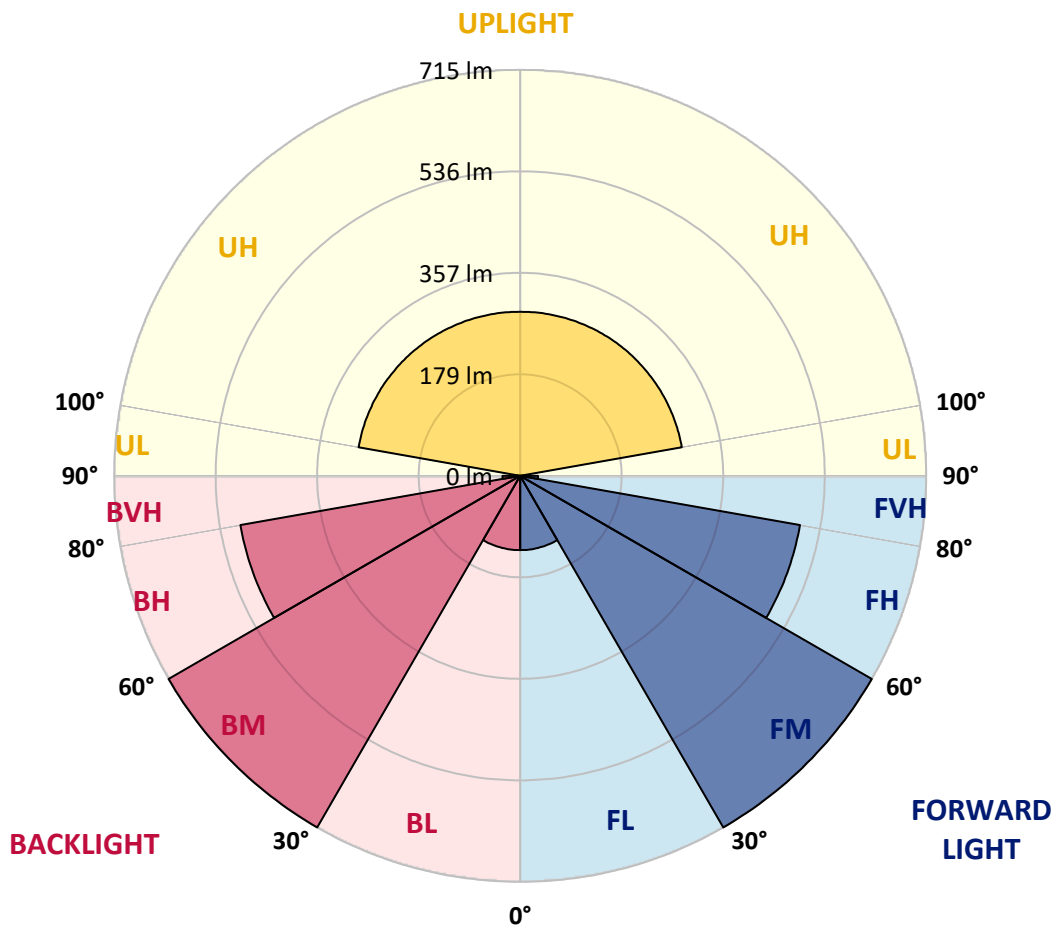


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.8	4.3			
FM (30°-60°)	714.8	23.4			
FH (60°-80°)	500.2	16.4			G0/660
FVH (80°-90°)	31.3	1.0			G1/100
BL (0°-30°)	130.8	4.3	B1/500		
BM (30°-60°)	714.8	23.4	B1/1000		
BH (60°-80°)	500.2	16.4	B2/1000		G2/1000
BVH (80°-90°)	31.3	1.0			G1/100
UL (90°-100°)	6.6	0.2		U1/10	
UH (100°-180°)	288.9	9.5		U3/500	

BUG Rating: B2-U3-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8	247.8
2.5°	247.8	247.8	247.8	247.8	245.3	245.3	245.3	242.8	242.8	242.8	242.8
5°	247.8	247.8	247.8	250.3	250.3	250.3	247.8	247.8	247.8	247.8	247.8
7.5°	247.8	250.3	250.3	247.8	247.8	245.3	245.3	245.3	242.8	242.8	242.8
10°	247.8	247.8	247.8	247.8	245.3	245.3	247.8	247.8	250.3	250.3	250.3
12.5°	245.3	245.3	247.8	247.8	247.8	250.3	255.2	257.7	260.2	262.7	262.7
15°	247.8	247.8	250.3	252.7	255.2	260.2	267.6	275.0	280.0	282.5	280.0
17.5°	247.8	250.3	252.7	257.7	265.1	272.6	285.0	294.9	304.8	307.3	309.7
20°	252.7	252.7	255.2	265.1	277.5	289.9	307.3	324.6	337.0	341.9	341.9
22.5°	255.2	257.7	260.2	272.6	292.4	312.2	337.0	356.8	374.2	384.1	386.6
25°	262.7	262.7	267.6	285.0	309.7	339.5	371.7	401.4	423.7	436.1	438.6
27.5°	267.6	270.1	277.5	299.8	332.0	369.2	413.8	448.5	475.8	490.6	493.1
30°	272.6	275.0	289.9	314.7	354.3	398.9	451.0	495.6	530.3	547.6	550.1
32.5°	280.0	282.5	299.8	327.1	374.2	428.7	488.1	542.7	592.2	607.1	609.6
35°	287.4	289.9	309.7	341.9	396.5	458.4	527.8	592.2	651.7	671.5	676.5
37.5°	294.9	297.3	317.2	356.8	418.8	490.6	572.4	649.2	713.6	740.9	748.3
40°	302.3	304.8	327.1	371.7	441.1	525.3	619.5	703.7	778.1	810.3	815.2
42.5°	307.3	309.7	334.5	384.1	463.4	557.5	669.0	763.2	842.5	884.6	889.6
45°	314.7	317.2	344.4	401.4	483.2	594.7	716.1	830.1	921.8	968.9	973.8
47.5°	319.6	322.1	351.9	411.3	505.5	629.4	765.7	889.6	998.6	1048.1	1063.0
50°	322.1	324.6	356.8	421.2	520.4	654.2	805.3	949.0	1065.5	1127.4	1134.9
52.5°	322.1	327.1	359.3	428.7	530.3	676.5	837.5	998.6	1129.9	1199.3	1201.8
55°	319.6	322.1	356.8	426.2	535.2	686.4	859.8	1028.3	1174.5	1241.4	1263.7
57.5°	309.7	312.2	346.9	418.8	525.3	681.4	854.9	1035.8	1184.4	1248.9	1276.1
60°	294.9	299.8	332.0	401.4	510.4	664.1	840.0	1020.9	1169.6	1248.9	1251.3
62.5°	277.5	280.0	312.2	379.1	488.1	636.8	812.7	991.2	1134.9	1216.6	1214.2
65°	252.7	255.2	282.5	351.9	448.5	584.8	758.2	944.1	1068.0	1154.7	1147.3
67.5°	225.5	228.0	252.7	314.7	401.4	527.8	683.9	864.8	973.8	1063.0	1058.1
70°	195.8	195.8	218.1	270.1	351.9	463.4	602.1	760.7	869.7	944.1	946.6
72.5°	161.1	161.1	180.9	225.5	294.9	389.0	508.0	649.2	738.4	802.8	807.8
75°	126.4	123.9	141.2	178.4	232.9	309.7	401.4	522.8	592.2	654.2	651.7
77.5°	89.2	89.2	99.1	128.9	168.5	230.4	297.3	394.0	441.1	493.1	483.2
80°	57.0	57.0	61.9	84.2	111.5	153.6	195.8	267.6	299.8	339.5	327.1
82.5°	29.7	27.3	32.2	44.6	59.5	84.2	109.0	156.1	171.0	200.7	190.8
85°	9.9	9.9	9.9	14.9	22.3	32.2	42.1	66.9	69.4	89.2	81.8
87.5°	2.5	0.0	0.0	2.5	2.5	2.5	2.5	7.4	7.4	14.9	9.9
90°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)