

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: P833236

Luminaire Tested: **TTN-D1-750-U-RW-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833236
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-D1-750-U-RW-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3396.9 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B2 - U3 - G2

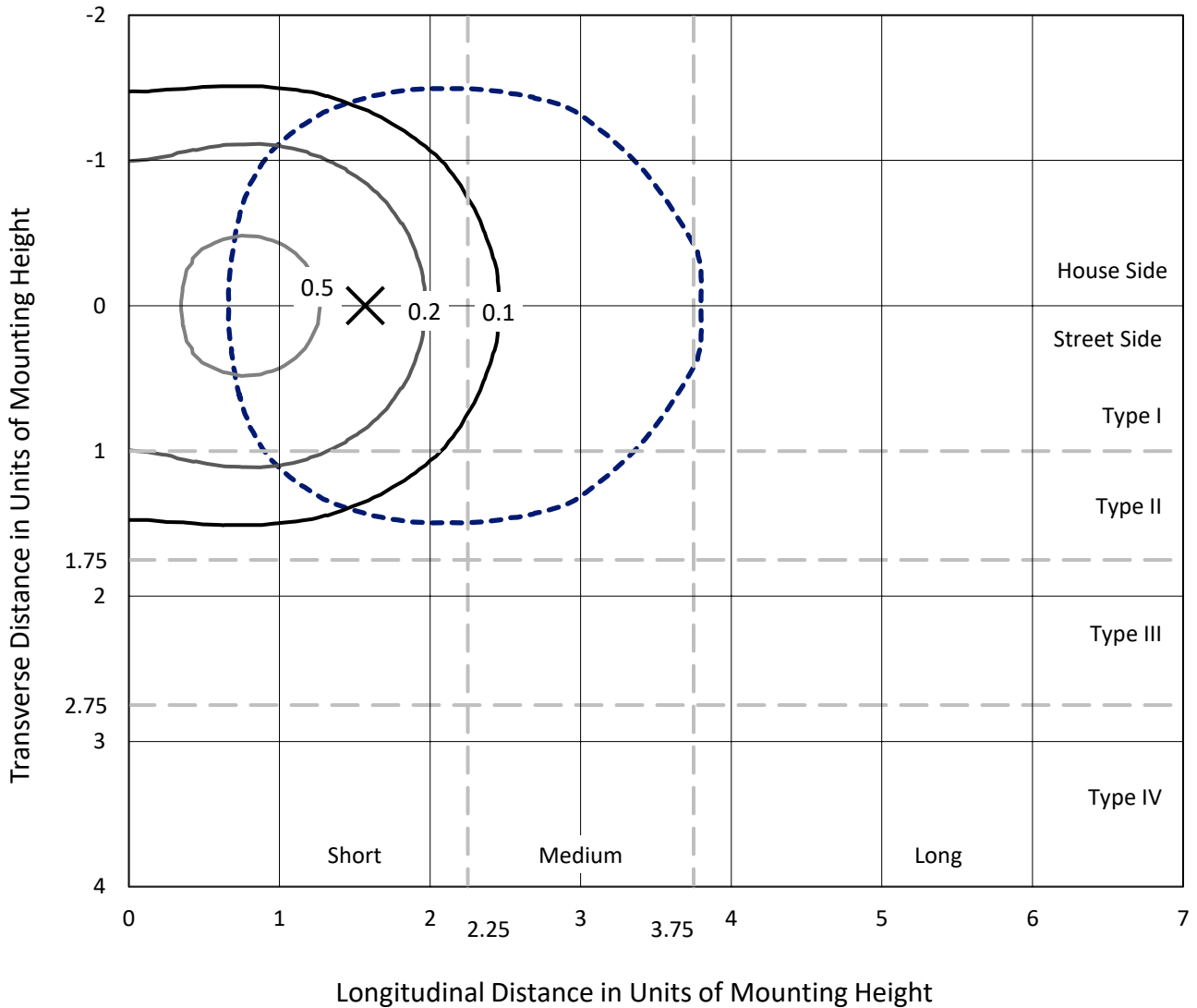
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

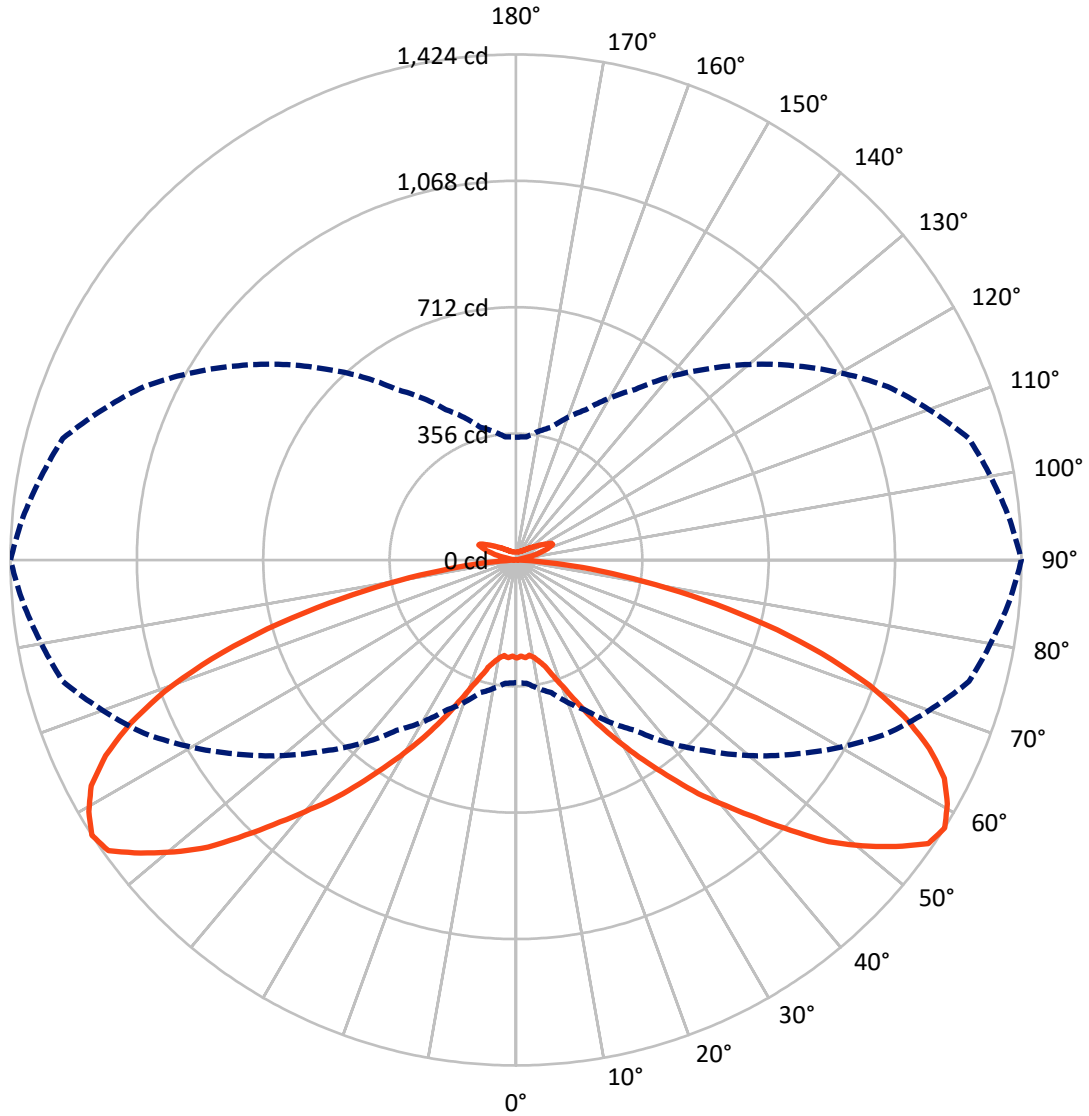
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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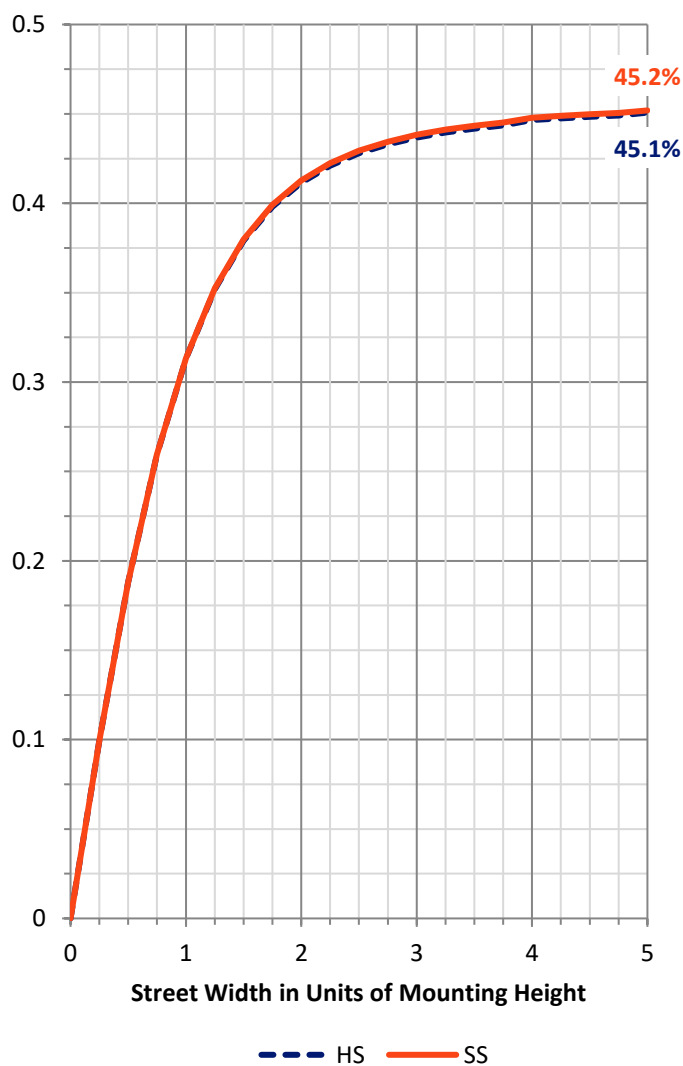
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.7	161.7	1698.4
	% Fixture	45.2	4.8	50.0
Street Side	Lumens	1536.7	161.7	1698.4
	% Fixture	45.2	4.8	50.0
Total	Lumens	3073.4	323.4	3396.9
	% Fixture	90.5	9.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.8
10°-20°	84.9	2.5
20°-30°	180.7	5.3
30°-40°	333.1	9.8
40°-50°	536.3	15.8
50°-60°	725.9	21.4
60°-70°	705.7	20.8
70°-80°	410.6	12.1
80°-90°	69.9	2.1
90°-100°	7.2	0.2
100°-110°	73.4	2.2
110°-120°	107.3	3.2
120°-130°	62.3	1.8
130°-140°	33.0	1.0
140°-150°	19.6	0.6
150°-160°	12.1	0.4
160°-170°	6.6	0.2
170°-180°	2.1	0.1
0°-90°	3073.4	90.5
0°-180°	3396.9	100.0

Coefficient of Utilization

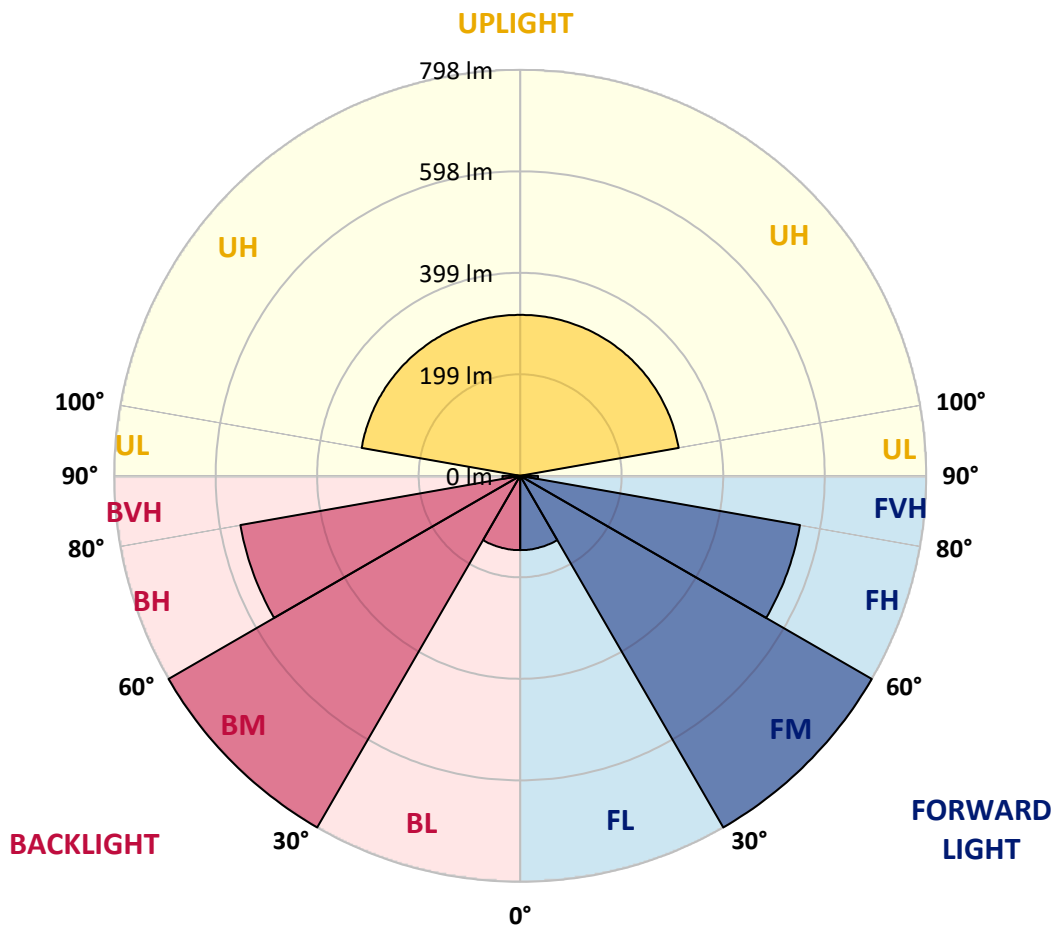


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.0	4.3			
FM (30°-60°)	797.6	23.5			
FH (60°-80°)	558.2	16.4			G0/660
FVH (80°-90°)	34.9	1.0			G1/100
BL (0°-30°)	146.0	4.3	B1/500		
BM (30°-60°)	797.6	23.5	B1/1000		
BH (60°-80°)	558.2	16.4	B2/1000		G2/1000
BVH (80°-90°)	34.9	1.0			G1/100
UL (90°-100°)	7.2	0.2		U1/10	
UH (100°-180°)	316.2	9.3		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°	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5
2.5°	276.5	276.5	276.5	276.5	273.7	273.7	273.7	271.0	271.0	271.0	271.0
5°	276.5	276.5	276.5	279.3	279.3	279.3	276.5	276.5	276.5	276.5	276.5
7.5°	276.5	279.3	279.3	276.5	276.5	273.7	273.7	273.7	271.0	271.0	271.0
10°	276.5	276.5	276.5	276.5	273.7	273.7	276.5	276.5	279.3	279.3	279.3
12.5°	273.7	273.7	276.5	276.5	276.5	279.3	284.8	287.6	290.3	293.1	293.1
15°	276.5	276.5	279.3	282.0	284.8	290.3	298.6	306.9	312.4	315.2	312.4
17.5°	276.5	279.3	282.0	287.6	295.8	304.1	318.0	329.0	340.1	342.8	345.6
20°	282.0	282.0	284.8	295.8	309.7	323.5	342.8	362.2	376.0	381.6	381.6
22.5°	284.8	287.6	290.3	304.1	326.3	348.4	376.0	398.1	417.5	428.6	431.3
25°	293.1	293.1	298.6	318.0	345.6	378.8	414.7	447.9	472.8	486.6	489.4
27.5°	298.6	301.4	309.7	334.6	370.5	412.0	461.7	500.4	530.9	547.5	550.2
30°	304.1	306.9	323.5	351.1	395.4	445.2	503.2	553.0	591.7	611.0	613.8
32.5°	312.4	315.2	334.6	365.0	417.5	478.3	544.7	605.5	660.8	677.4	680.2
35°	320.7	323.5	345.6	381.6	442.4	511.5	588.9	660.8	727.2	749.3	754.8
37.5°	329.0	331.8	353.9	398.1	467.3	547.5	638.7	724.4	796.3	826.7	835.0
40°	337.3	340.1	365.0	414.7	492.2	586.2	691.2	785.2	868.2	904.1	909.7
42.5°	342.8	345.6	373.3	428.6	517.0	622.1	746.5	851.6	940.1	987.1	992.6
45°	351.1	353.9	384.3	447.9	539.2	663.6	799.1	926.2	1028.5	1081.1	1086.6
47.5°	356.7	359.4	392.6	459.0	564.0	702.3	854.4	992.6	1114.3	1169.6	1186.1
50°	359.4	362.2	398.1	470.0	580.6	729.9	898.6	1059.0	1188.9	1258.0	1266.3
52.5°	359.4	365.0	400.9	478.3	591.7	754.8	934.5	1114.3	1260.8	1338.2	1341.0
55°	356.7	359.4	398.1	475.6	597.2	765.9	959.4	1147.4	1310.6	1385.2	1410.1
57.5°	345.6	348.4	387.1	467.3	586.2	760.4	953.9	1155.7	1321.6	1393.5	1423.9
60°	329.0	334.6	370.5	447.9	569.6	741.0	937.3	1139.1	1305.0	1393.5	1396.3
62.5°	309.7	312.4	348.4	423.0	544.7	710.6	906.9	1106.0	1266.3	1357.6	1354.8
65°	282.0	284.8	315.2	392.6	500.4	652.5	846.1	1053.4	1191.7	1288.4	1280.2
67.5°	251.6	254.4	282.0	351.1	447.9	588.9	763.1	965.0	1086.6	1186.1	1180.6
70°	218.4	218.4	243.3	301.4	392.6	517.0	671.9	848.8	970.5	1053.4	1056.2
72.5°	179.7	179.7	201.8	251.6	329.0	434.1	566.8	724.4	823.9	895.8	901.4
75°	141.0	138.2	157.6	199.1	259.9	345.6	447.9	583.4	660.8	729.9	727.2
77.5°	99.5	99.5	110.6	143.8	188.0	257.1	331.8	439.6	492.2	550.2	539.2
80°	63.6	63.6	69.1	94.0	124.4	171.4	218.4	298.6	334.6	378.8	365.0
82.5°	33.2	30.4	35.9	49.8	66.4	94.0	121.7	174.2	190.8	224.0	212.9
85°	11.1	11.1	11.1	16.6	24.9	35.9	47.0	74.7	77.4	99.5	91.2
87.5°	2.8	0.0	0.0	2.8	2.8	2.8	2.8	8.3	8.3	16.6	11.1
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)