

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: P833605

Luminaire Tested: **TTN-D2-750-U-WQ-SG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833605
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-D2-750-U-WQ-SG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5244.9 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

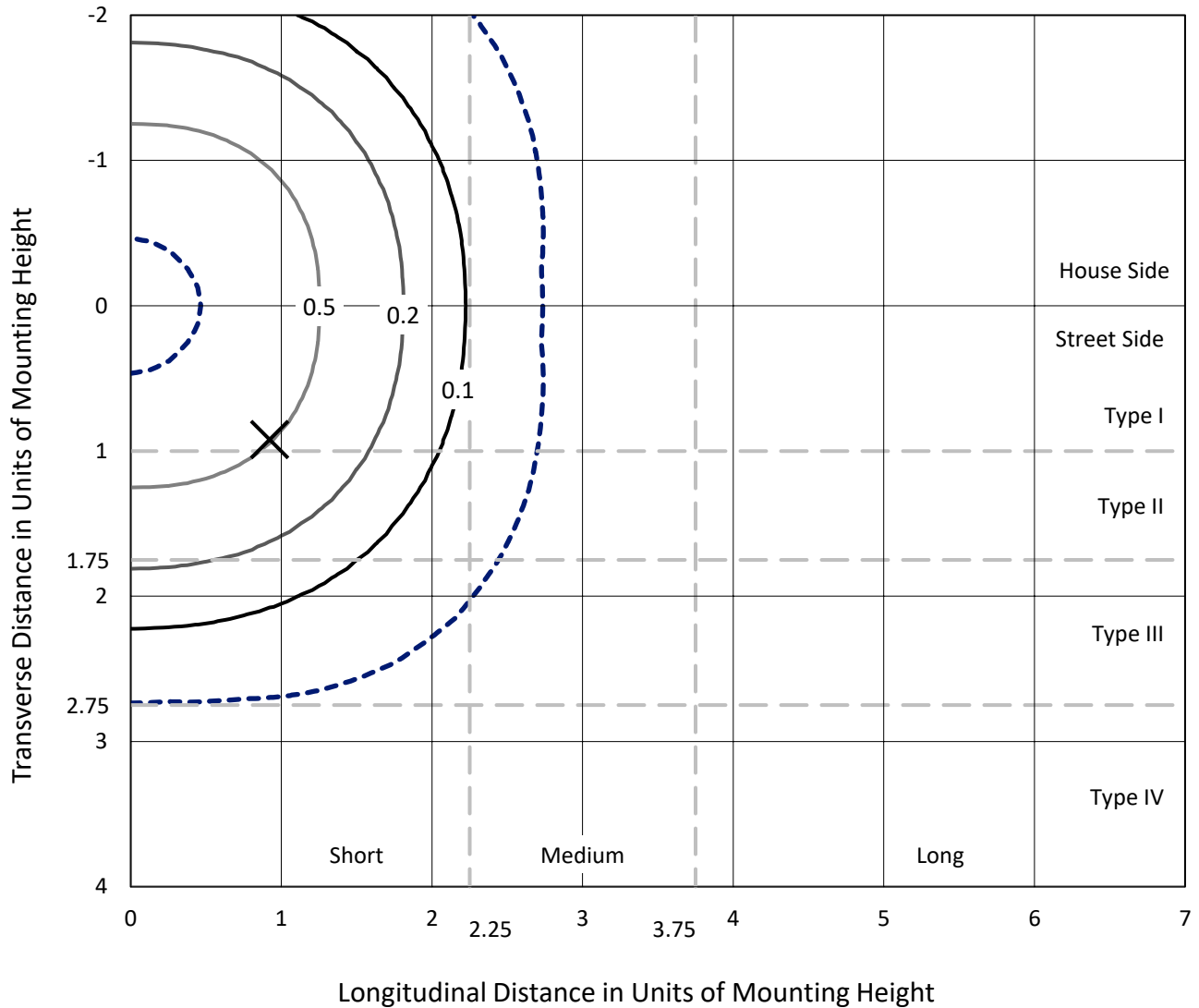
Input Watts (W): 45.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

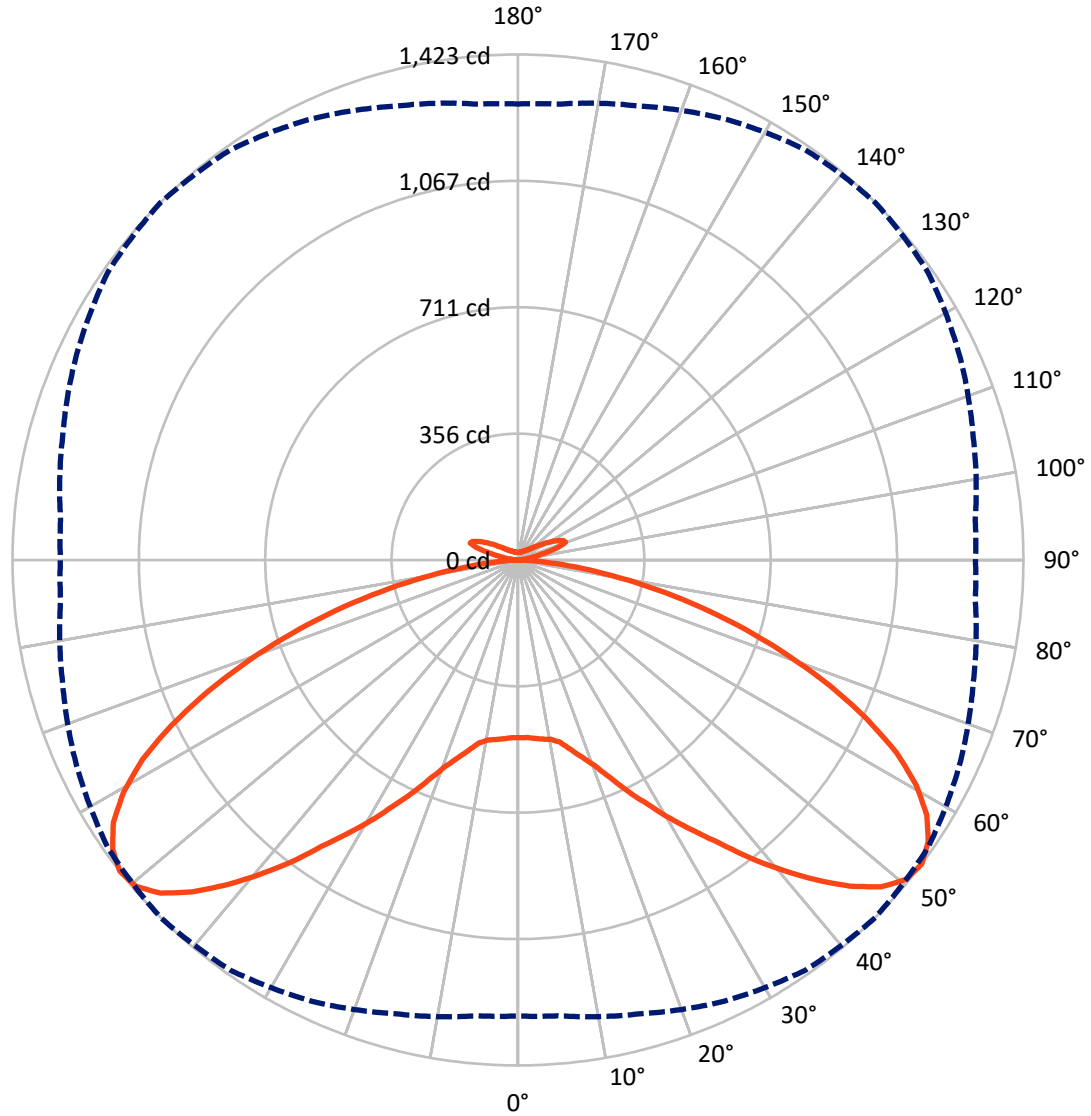
✕ Max cd
 - - - 1/2 Max cd



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 52.5-Deg Vertical

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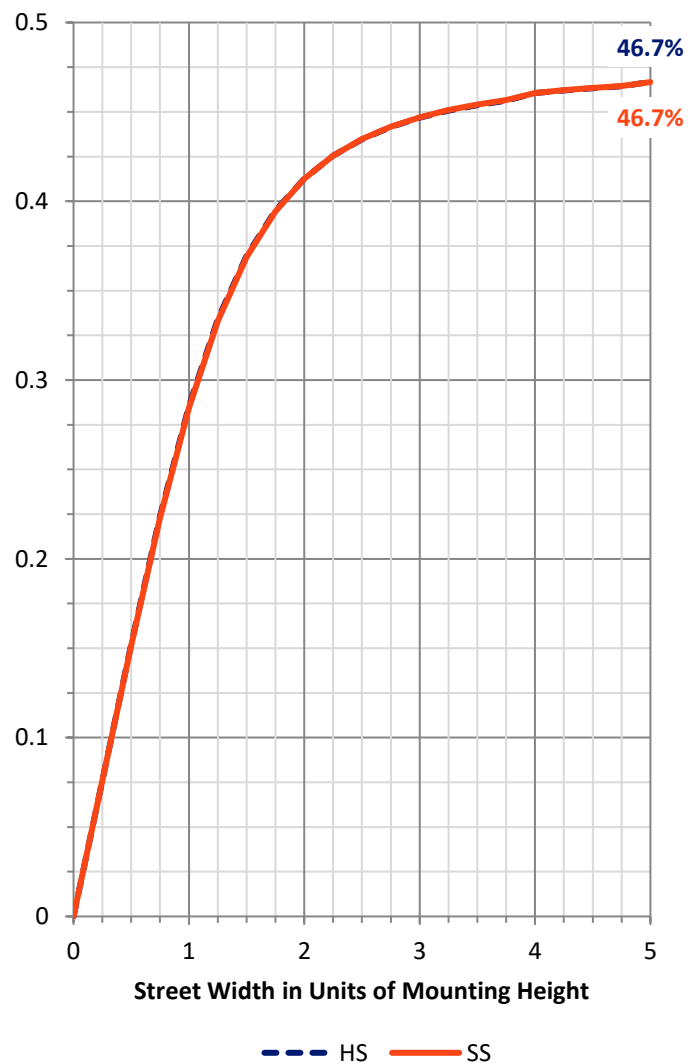
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2460.7	161.7	2622.4
	% Fixture	46.9	3.1	50.0
Street Side	Lumens	2460.7	161.7	2622.4
	% Fixture	46.9	3.1	50.0
Total	Lumens	4921.5	323.4	5244.9
	% Fixture	93.8	6.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	0.9
10°-20°	158.8	3.0
20°-30°	335.1	6.4
30°-40°	612.2	11.7
40°-50°	974.6	18.6
50°-60°	1178.5	22.5
60°-70°	990.9	18.9
70°-80°	525.3	10.0
80°-90°	97.6	1.9
90°-100°	7.2	0.1
100°-110°	73.4	1.4
110°-120°	107.3	2.0
120°-130°	62.3	1.2
130°-140°	33.0	0.6
140°-150°	19.6	0.4
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	4921.5	93.8
0°-180°	5244.9	100.0

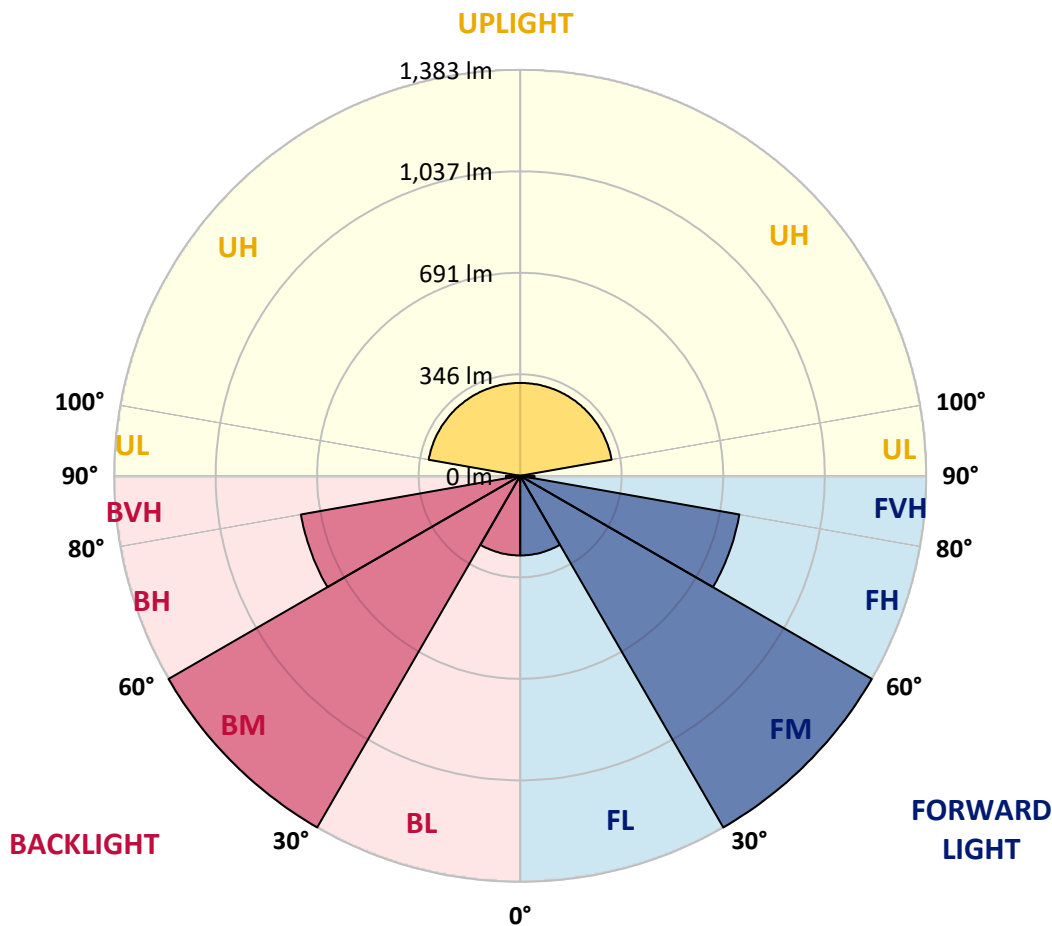


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.1	5.2			
FM (30°-60°)	1382.7	26.4			
FH (60°-80°)	758.1	14.5			G1/1800
FVH (80°-90°)	48.8	0.9			G1/100
BL (0°-30°)	271.1	5.2	B1/500		
BM (30°-60°)	1382.7	26.4	B2/2500		
BH (60°-80°)	758.1	14.5	B2/1000		G1/1800
BVH (80°-90°)	48.8	0.9			G1/100
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	6.0		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°	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3
2.5°	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3
5°	504.7	504.7	500.3	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7
7.5°	504.7	504.7	504.7	509.0	509.0	509.0	509.0	504.7	504.7	504.7	504.7
10°	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4	513.4
12.5°	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4
15°	548.2	548.2	548.2	548.2	552.5	552.5	552.5	548.2	548.2	548.2	548.2
17.5°	574.3	574.3	578.6	578.6	583.0	583.0	583.0	578.6	574.3	578.6	574.3
20°	613.4	613.4	613.4	617.8	622.1	617.8	622.1	613.4	613.4	613.4	613.4
22.5°	656.9	656.9	656.9	661.3	665.6	665.6	665.6	656.9	656.9	656.9	656.9
25°	709.1	709.1	709.1	713.5	717.8	722.2	722.2	713.5	709.1	709.1	704.8
27.5°	761.3	761.3	770.0	774.4	778.7	778.7	778.7	770.0	765.7	765.7	765.7
30°	822.2	822.2	830.9	835.3	844.0	844.0	844.0	830.9	826.6	822.2	822.2
32.5°	878.8	883.1	891.8	900.5	909.3	909.3	913.6	896.2	887.5	883.1	883.1
35°	939.7	944.1	952.8	965.8	974.5	978.9	983.2	965.8	952.8	948.4	948.4
37.5°	1009.3	1013.7	1026.7	1039.8	1057.2	1065.9	1070.2	1044.1	1022.4	1013.7	1013.7
40°	1087.6	1092.0	1105.0	1122.4	1139.8	1148.5	1152.9	1126.8	1105.0	1096.3	1092.0
42.5°	1152.9	1161.6	1174.6	1200.7	1218.1	1231.2	1231.2	1200.7	1174.6	1161.6	1161.6
45°	1213.8	1222.5	1244.2	1270.3	1296.4	1309.5	1305.1	1274.7	1244.2	1226.8	1222.5
47.5°	1261.6	1270.3	1296.4	1326.9	1361.7	1374.8	1370.4	1335.6	1296.4	1274.7	1270.3
50°	1287.7	1292.1	1322.5	1366.1	1400.9	1413.9	1405.2	1370.4	1326.9	1296.4	1292.1
52.5°	1283.4	1287.7	1322.5	1370.4	1409.6	1422.6	1409.6	1370.4	1326.9	1292.1	1287.7
55°	1257.3	1261.6	1296.4	1348.6	1387.8	1400.9	1387.8	1348.6	1300.8	1266.0	1261.6
57.5°	1209.4	1213.8	1248.6	1300.8	1344.3	1357.3	1339.9	1296.4	1248.6	1213.8	1213.8
60°	1139.8	1144.2	1179.0	1235.5	1274.7	1287.7	1266.0	1231.2	1183.3	1144.2	1139.8
62.5°	1048.5	1048.5	1087.6	1144.2	1179.0	1196.4	1174.6	1135.5	1092.0	1048.5	1052.8
65°	939.7	935.4	974.5	1026.7	1065.9	1078.9	1057.2	1022.4	978.9	939.7	939.7
67.5°	826.6	826.6	857.0	900.5	935.4	948.4	926.7	896.2	861.4	826.6	826.6
70°	704.8	704.8	726.5	770.0	800.5	809.2	796.1	765.7	735.2	704.8	704.8
72.5°	583.0	578.6	600.4	635.2	661.3	670.0	656.9	639.5	604.7	583.0	583.0
75°	461.2	456.8	469.9	500.3	522.1	530.8	517.7	504.7	478.6	461.2	461.2
77.5°	343.7	339.3	352.4	378.5	391.5	395.9	387.2	378.5	356.7	343.7	343.7
80°	234.9	230.6	239.3	256.7	269.7	269.7	265.4	261.0	243.6	234.9	239.3
82.5°	139.2	134.9	143.6	156.6	165.3	161.0	161.0	156.6	143.6	139.2	139.2
85°	60.9	56.6	60.9	69.6	78.3	74.0	74.0	74.0	65.3	60.9	60.9
87.5°	8.7	8.7	8.7	13.1	17.4	13.1	13.1	13.1	8.7	8.7	8.7
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)