

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: P833935

Luminaire Tested: **TTN-D3-740-U-WQ-SG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833935
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-D3-740-U-WQ-SG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6872.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G1

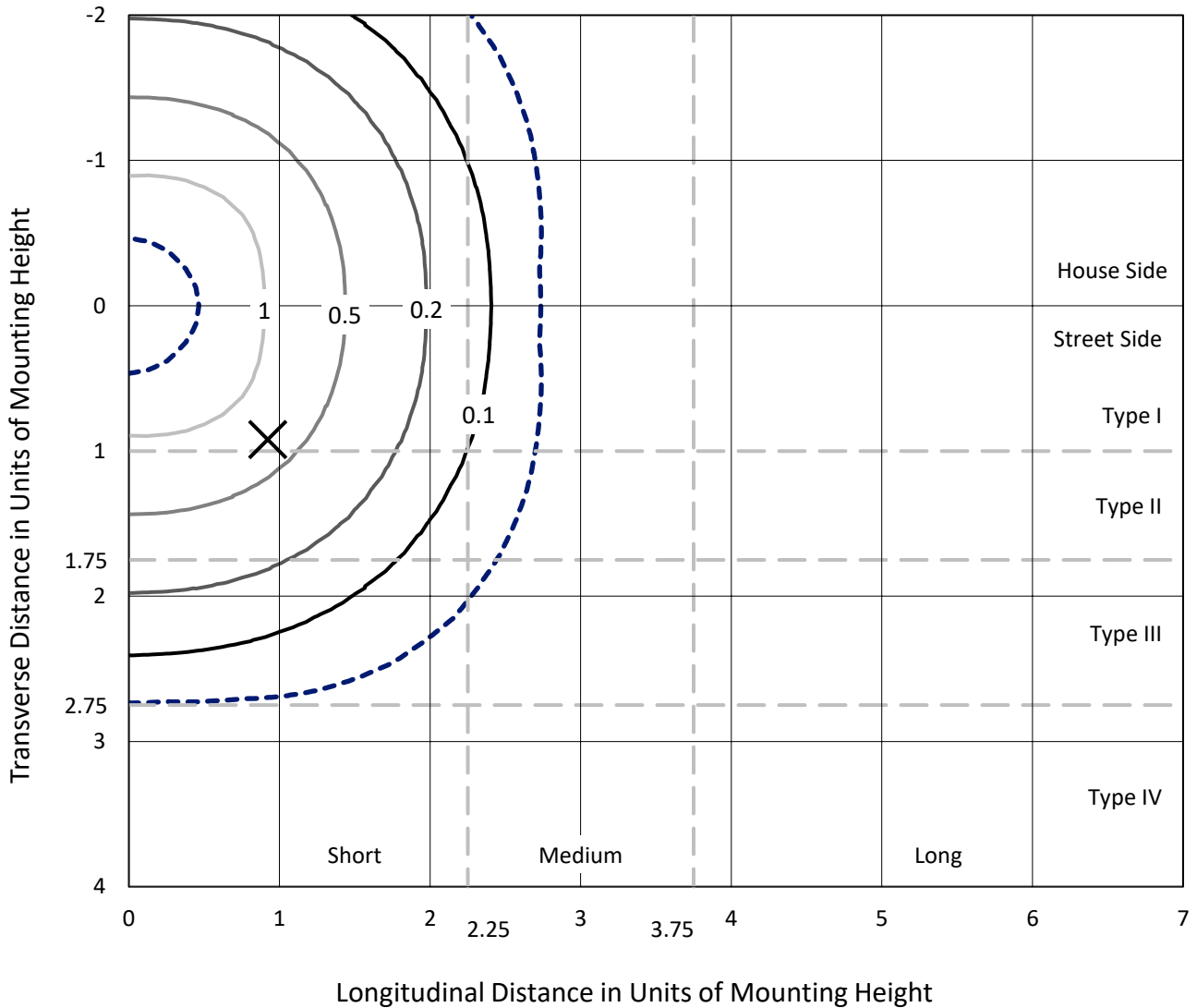
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

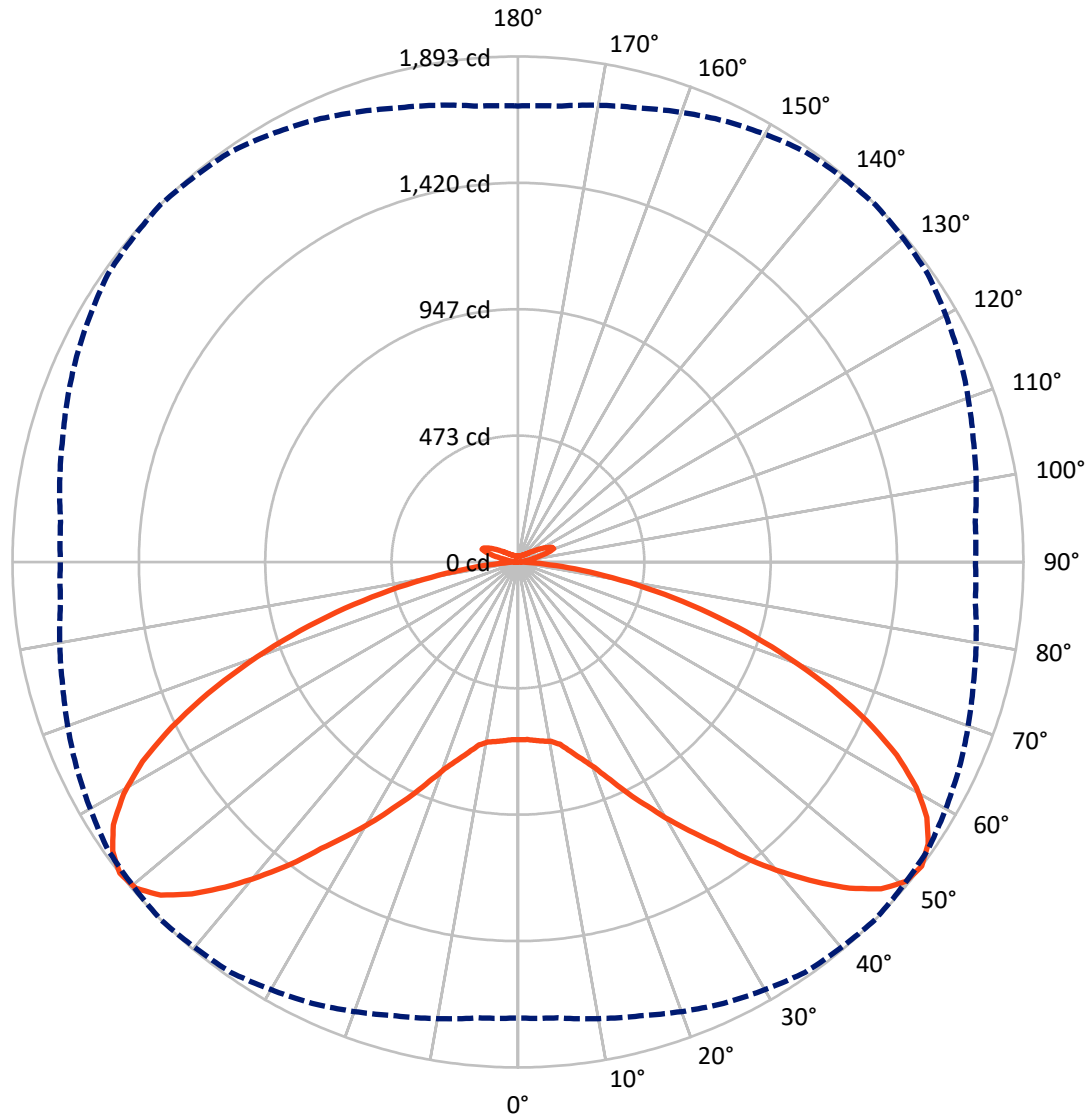
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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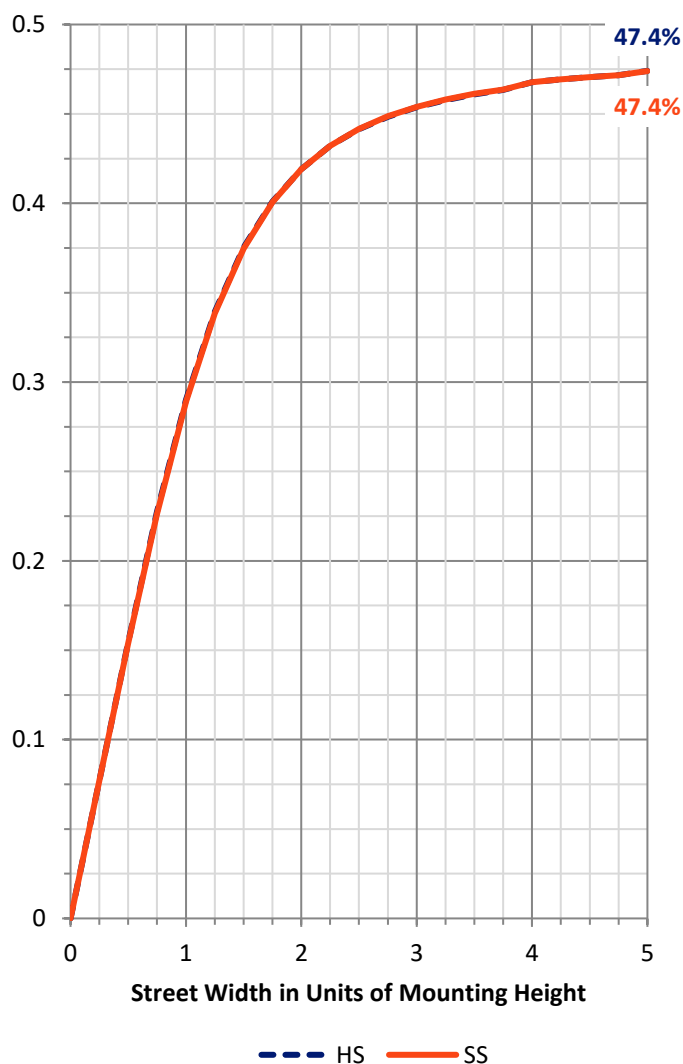
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3274.7	161.7	3436.4
	% Fixture	47.6	2.4	50.0
Street Side	Lumens	3274.7	161.7	3436.4
	% Fixture	47.6	2.4	50.0
Total	Lumens	6549.5	323.4	6872.9
	% Fixture	95.3	4.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	0.9
10°-20°	211.3	3.1
20°-30°	446.0	6.5
30°-40°	814.8	11.9
40°-50°	1297.1	18.9
50°-60°	1568.4	22.8
60°-70°	1318.7	19.2
70°-80°	699.0	10.2
80°-90°	129.8	1.9
90°-100°	7.2	0.1
100°-110°	73.4	1.1
110°-120°	107.3	1.6
120°-130°	62.3	0.9
130°-140°	33.0	0.5
140°-150°	19.6	0.3
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	6549.5	95.3
0°-180°	6872.9	100.0

Coefficient of Utilization



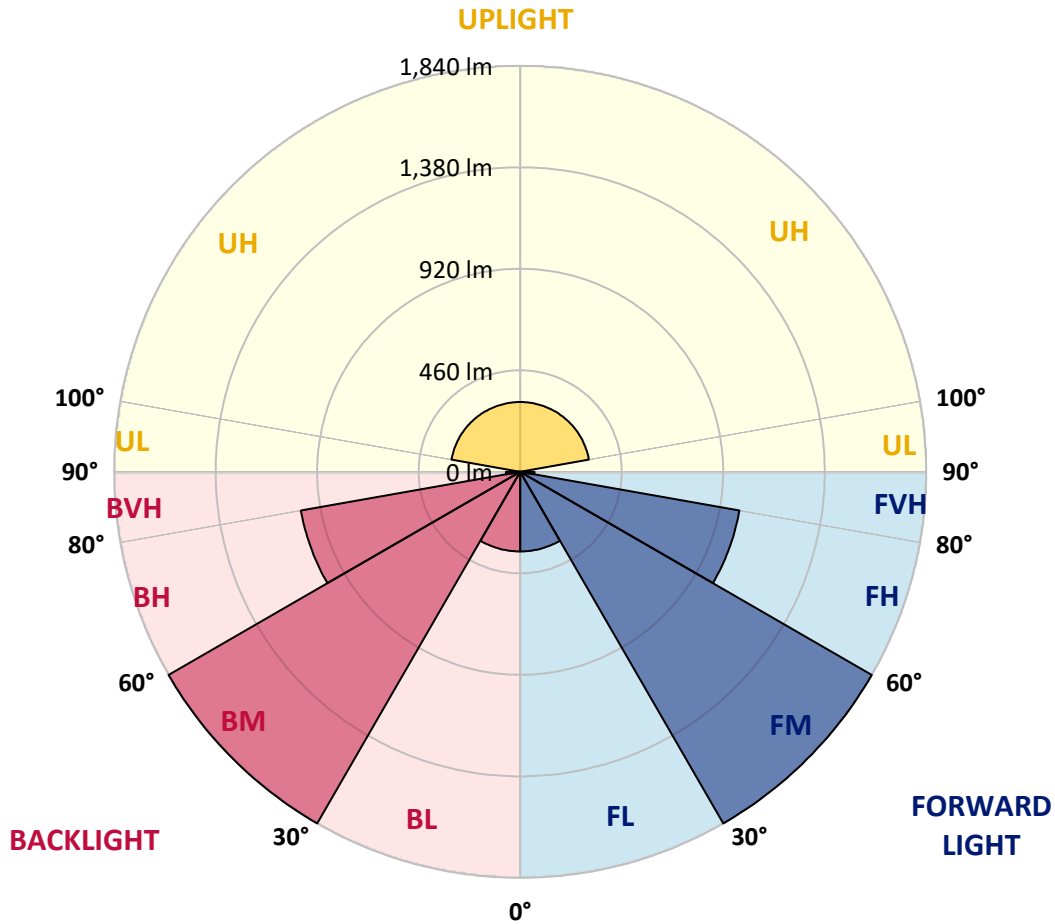
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.8	5.3			
FM (30°-60°)	1840.1	26.8			
FH (60°-80°)	1008.9	14.7			G1/1800
FVH (80°-90°)	64.9	0.9			G1/100
BL (0°-30°)	360.8	5.3	B1/500		
BM (30°-60°)	1840.1	26.8	B2/2500		
BH (60°-80°)	1008.9	14.7	B3/2500		G1/1800
BVH (80°-90°)	64.9	0.9			G1/100
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	4.6		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°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
2.5°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
5°	671.6	671.6	665.8	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
7.5°	671.6	671.6	671.6	677.4	677.4	677.4	677.4	671.6	671.6	671.6	671.6
10°	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2	683.2
12.5°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
15°	729.5	729.5	729.5	729.5	735.3	735.3	735.3	729.5	729.5	729.5	729.5
17.5°	764.2	764.2	770.0	770.0	775.8	775.8	775.8	770.0	764.2	770.0	764.2
20°	816.4	816.4	816.4	822.1	827.9	827.9	827.9	816.4	816.4	816.4	816.4
22.5°	874.3	874.3	874.3	880.0	885.8	885.8	885.8	874.3	874.3	874.3	874.3
25°	943.7	943.7	943.7	949.5	955.3	961.1	961.1	949.5	943.7	943.7	937.9
27.5°	1013.2	1013.2	1024.8	1030.6	1036.4	1036.4	1036.4	1024.8	1019.0	1019.0	1019.0
30°	1094.3	1094.3	1105.8	1111.6	1123.2	1123.2	1123.2	1105.8	1100.0	1094.3	1094.3
32.5°	1169.5	1175.3	1186.9	1198.5	1210.1	1210.1	1215.8	1192.7	1181.1	1175.3	1175.3
35°	1250.6	1256.4	1268.0	1285.3	1296.9	1302.7	1308.5	1285.3	1268.0	1262.2	1262.2
37.5°	1343.2	1349.0	1366.4	1383.7	1406.9	1418.5	1424.3	1389.5	1360.6	1349.0	1349.0
40°	1447.4	1453.2	1470.6	1493.8	1516.9	1528.5	1534.3	1499.5	1470.6	1459.0	1453.2
42.5°	1534.3	1545.9	1563.2	1598.0	1621.1	1638.5	1638.5	1598.0	1563.2	1545.9	1545.9
45°	1615.3	1626.9	1655.9	1690.6	1725.3	1742.7	1736.9	1696.4	1655.9	1632.7	1626.9
47.5°	1679.0	1690.6	1725.3	1765.9	1812.2	1829.6	1823.8	1777.4	1725.3	1696.4	1690.6
50°	1713.8	1719.6	1760.1	1818.0	1864.3	1881.7	1870.1	1823.8	1765.9	1725.3	1719.6
52.5°	1708.0	1713.8	1760.1	1823.8	1875.9	1893.2	1875.9	1823.8	1765.9	1719.6	1713.8
55°	1673.2	1679.0	1725.3	1794.8	1846.9	1864.3	1846.9	1794.8	1731.1	1684.8	1679.0
57.5°	1609.5	1615.3	1661.7	1731.1	1789.0	1806.4	1783.2	1725.3	1661.7	1615.3	1615.3
60°	1516.9	1522.7	1569.0	1644.3	1696.4	1713.8	1684.8	1638.5	1574.8	1522.7	1516.9
62.5°	1395.3	1395.3	1447.4	1522.7	1569.0	1592.2	1563.2	1511.1	1453.2	1395.3	1401.1
65°	1250.6	1244.8	1296.9	1366.4	1418.5	1435.9	1406.9	1360.6	1302.7	1250.6	1250.6
67.5°	1100.0	1100.0	1140.6	1198.5	1244.8	1262.2	1233.2	1192.7	1146.4	1100.0	1100.0
70°	937.9	937.9	966.9	1024.8	1065.3	1076.9	1059.5	1019.0	978.5	937.9	937.9
72.5°	775.8	770.0	799.0	845.3	880.0	891.6	874.3	851.1	804.8	775.8	775.8
75°	613.7	607.9	625.3	665.8	694.8	706.3	689.0	671.6	636.9	613.7	613.7
77.5°	457.4	451.6	469.0	503.7	521.1	526.9	515.3	503.7	474.8	457.4	457.4
80°	312.6	306.9	318.4	341.6	359.0	359.0	353.2	347.4	324.2	312.6	318.4
82.5°	185.3	179.5	191.1	208.4	220.0	214.2	214.2	208.4	191.1	185.3	185.3
85°	81.1	75.3	81.1	92.6	104.2	98.4	98.4	98.4	86.8	81.1	81.1
87.5°	11.6	11.6	11.6	17.4	23.2	17.4	17.4	17.4	11.6	11.6	11.6
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)