

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: P594382

Luminaire Tested: **ISC-PA1F-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594382  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1F-735-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7855 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

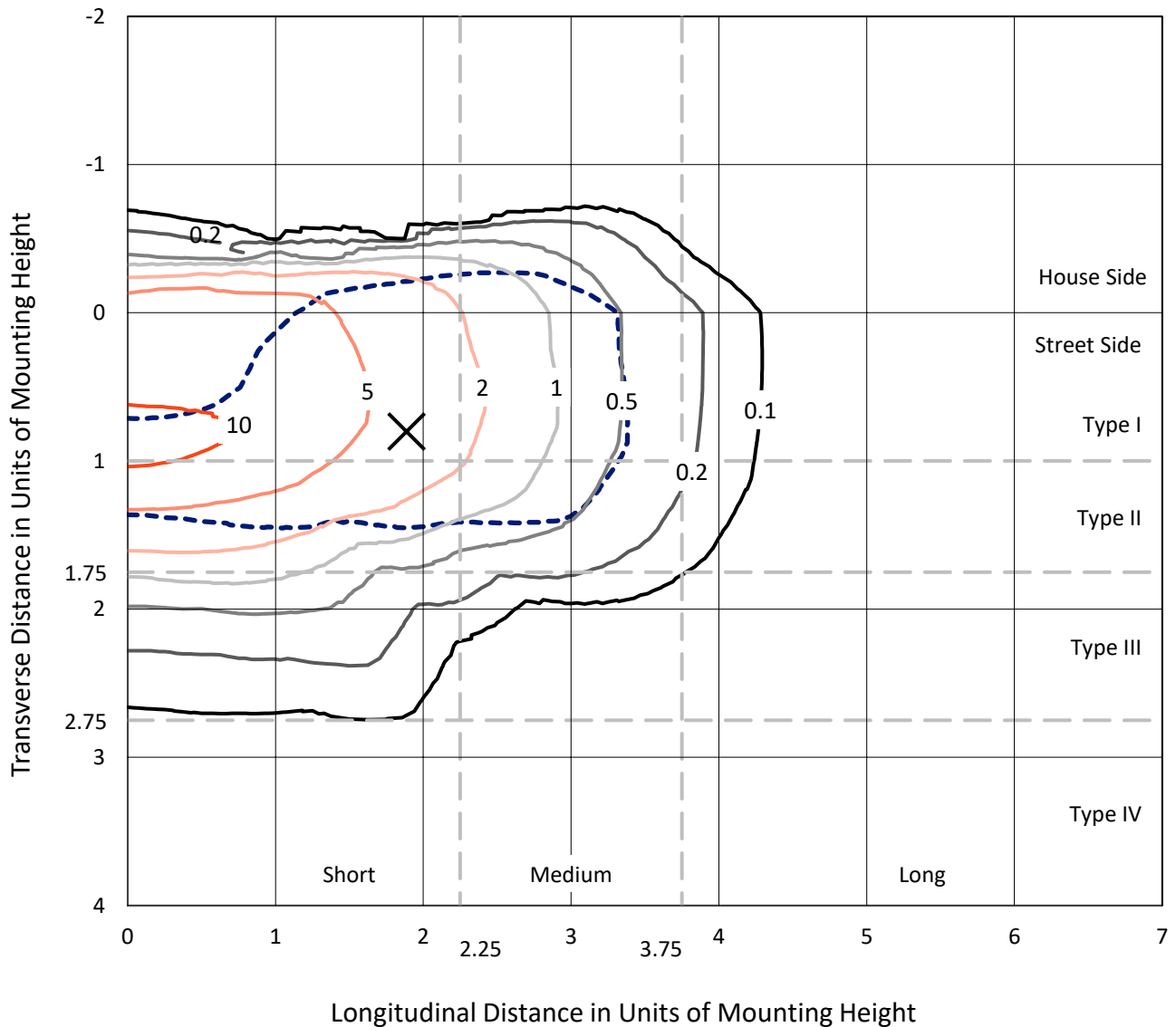
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594382  
 CATALOG NUMBER: ISC-PA1F-735-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

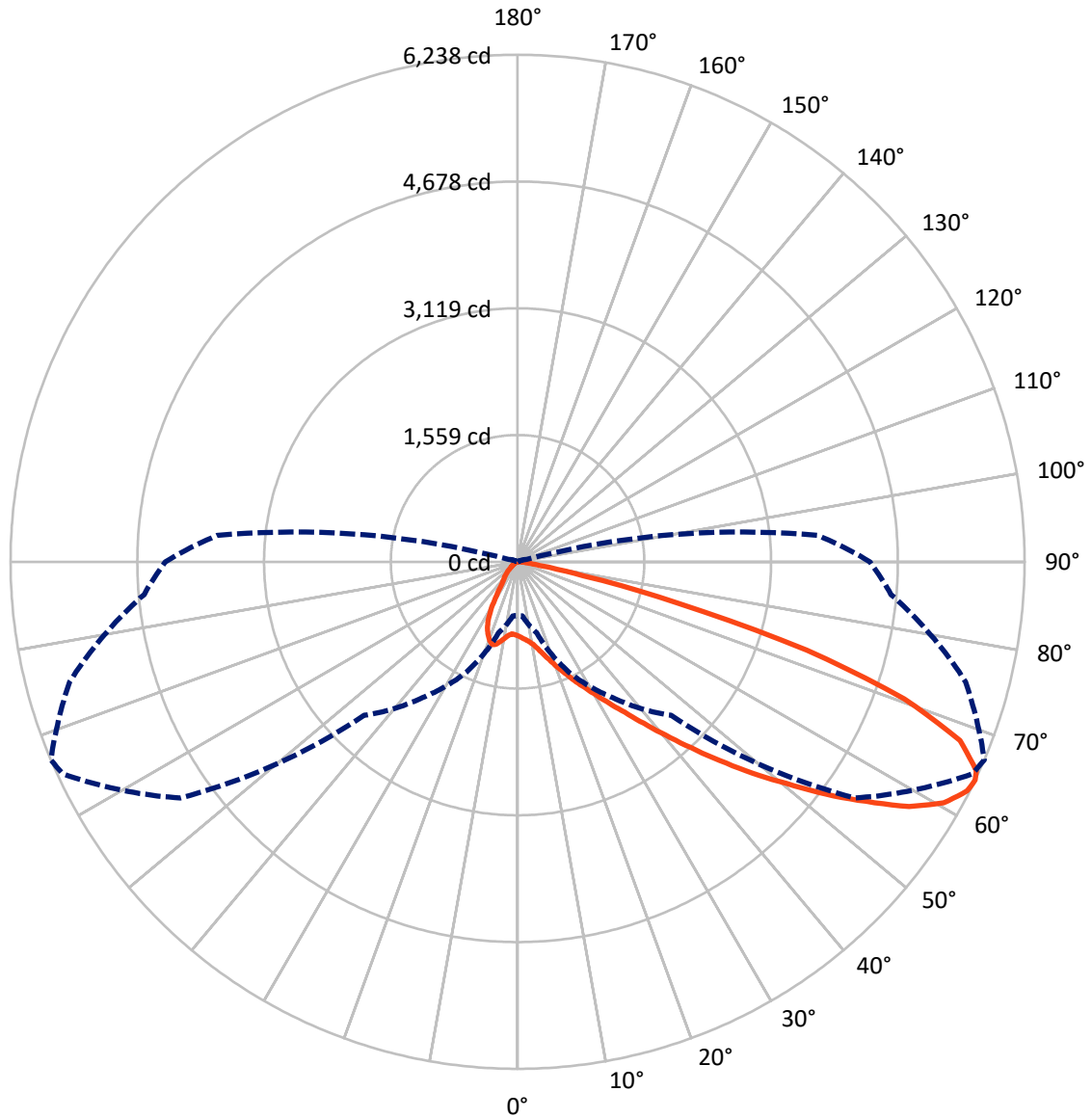
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P594382  
CATALOG NUMBER: ISC-PA1F-735-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P594382

CATALOG NUMBER: ISC-PA1F-735-U-T2U-HSS

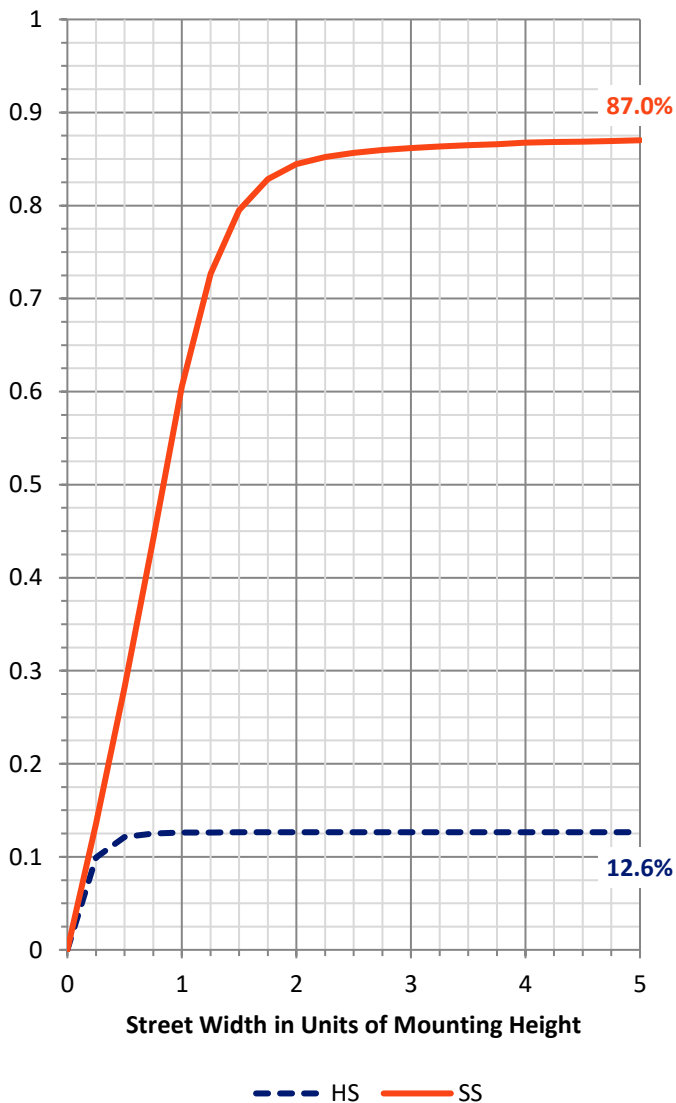
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1004.8	0.0	1004.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	6850.2	0.0	6850.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	7855.0	0.0	7855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	1.1
10°-20°	255.6	3.3
20°-30°	463.7	5.9
30°-40°	888.2	11.3
40°-50°	1637.0	20.8
50°-60°	2114.4	26.9
60°-70°	1731.9	22.0
70°-80°	636.6	8.1
80°-90°	41.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7855.0	100.0
0°-180°	7855.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P594382

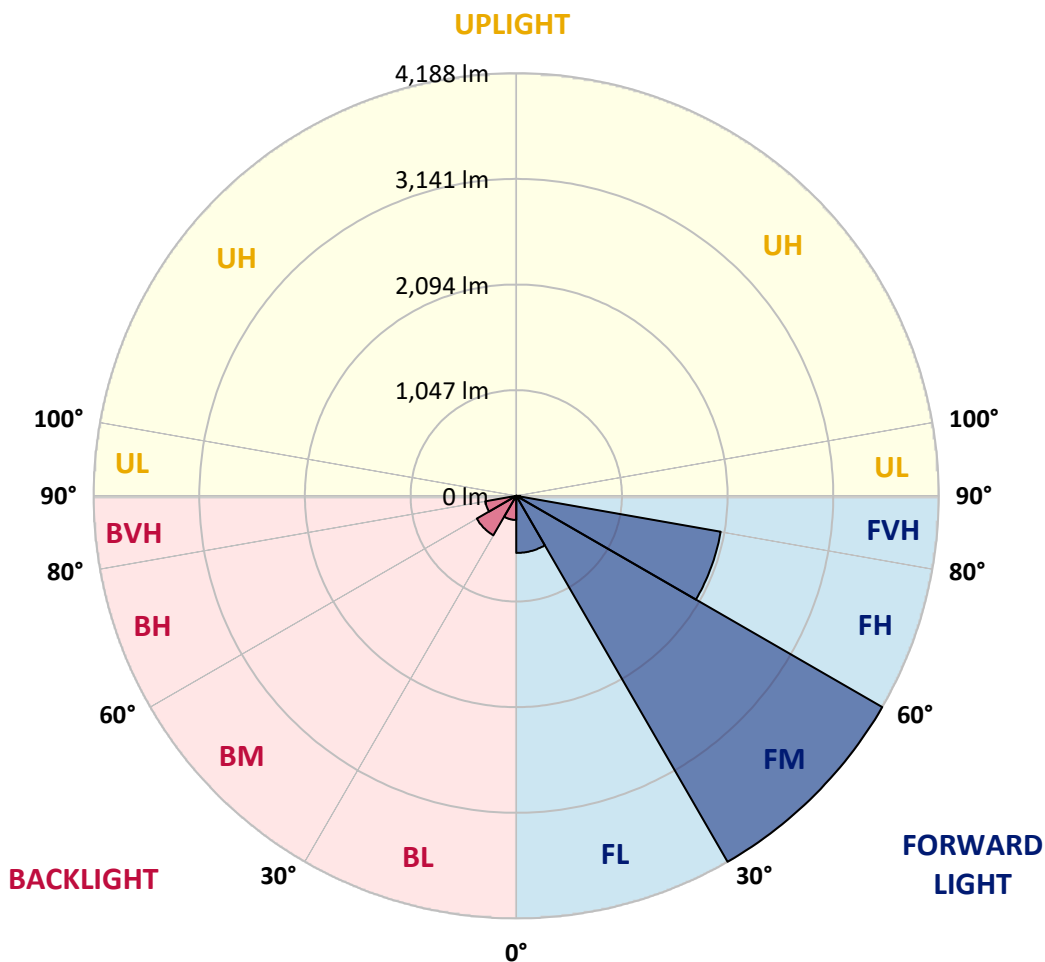
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.3	7.2			
FM (30°-60°)	4187.8	53.3			
FH (60°-80°)	2056.8	26.2			G2/5000
FVH (80°-90°)	39.2	0.5			G1/100
BL (0°-30°)	239.5	3.0	B1/500		
BM (30°-60°)	451.8	5.8	B1/1000		
BH (60°-80°)	311.7	4.0	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P594382  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7
2.5°	945.1	945.1	950.5	947.8	947.8	942.4	934.3	937.0	934.3	931.6	923.5
5°	928.9	931.6	934.3	939.7	950.5	955.9	955.9	958.6	958.6	955.9	945.1
7.5°	920.8	926.2	931.6	937.0	950.5	958.6	972.1	988.3	988.3	991.0	980.2
10°	950.5	955.9	964.0	972.1	985.6	999.1	1009.9	1028.8	1028.8	1034.2	1031.5
12.5°	1012.6	1012.6	1015.3	1020.7	1039.6	1055.8	1074.7	1090.9	1093.6	1096.3	1088.2
15°	1088.2	1088.2	1090.9	1090.9	1101.7	1126.0	1161.1	1177.3	1174.6	1171.9	1155.7
17.5°	1174.6	1174.6	1174.6	1177.3	1182.7	1196.2	1236.8	1269.2	1266.5	1263.8	1231.4
20°	1255.7	1261.1	1266.5	1269.2	1274.6	1285.4	1328.6	1366.4	1374.5	1363.7	1307.0
22.5°	1347.5	1350.2	1352.9	1361.0	1374.5	1379.9	1423.1	1479.8	1487.9	1474.4	1398.8
25°	1439.3	1444.7	1452.8	1463.6	1477.1	1504.1	1533.8	1609.4	1617.5	1601.3	1498.7
27.5°	1641.8	1639.1	1614.8	1595.9	1598.6	1617.5	1658.0	1739.0	1747.1	1730.9	1598.6
30°	1987.4	1955.0	1909.1	1825.4	1744.4	1752.5	1809.2	1887.5	1901.0	1879.4	1709.3
32.5°	2478.9	2446.5	2333.1	2149.5	1971.2	1911.8	1984.7	2060.4	2076.6	2052.3	1838.9
35°	2956.9	2948.8	2840.7	2619.3	2316.9	2152.2	2171.1	2268.3	2273.7	2244.0	2000.9
37.5°	3548.2	3518.5	3370.0	3121.6	2765.1	2470.8	2416.8	2508.6	2522.1	2487.0	2198.1
40°	3939.8	3929.0	3839.9	3664.4	3280.9	2911.0	2716.5	2805.6	2802.9	2751.6	2424.9
42.5°	4166.6	4172.0	4166.6	4082.9	3864.2	3440.2	3113.5	3118.9	3127.0	3073.0	2686.8
45°	4320.5	4320.5	4328.6	4396.1	4312.4	4072.1	3596.8	3475.3	3486.1	3402.4	2959.6
47.5°	4317.8	4334.0	4377.2	4533.9	4647.3	4660.8	4201.7	3891.2	3885.8	3758.9	3240.4
50°	4026.2	4015.4	4193.6	4544.7	4884.9	5146.8	4774.2	4331.3	4285.4	4128.8	3532.0
52.5°	3370.0	3405.1	3702.2	4217.9	4941.6	5476.3	5268.3	4812.0	4752.6	4496.1	3788.6
55°	2797.5	2835.3	3124.3	3629.2	4633.8	5592.4	5600.5	5322.4	5203.5	4814.7	4053.2
57.5°	2100.9	2173.8	2600.4	3075.7	3958.7	5303.5	5719.3	5811.1	5681.5	5122.5	4269.2
60°	1342.1	1385.3	1863.2	2449.2	3208.0	4547.4	5695.0	6094.6	6024.4	5403.4	4450.1
62.5°	877.6	901.9	1231.4	1844.3	2443.8	3426.7	5406.1	6208.1	6208.1	5592.4	4585.2
64°	661.6	667.0	901.9	1498.7	2038.8	2670.6	5065.8	6173.0	6237.8	5705.8	4612.2
65°	523.9	526.6	704.8	1244.9	1830.8	2190.0	4768.8	6097.3	6202.7	5749.0	4628.4
67.5°	367.2	375.3	456.4	718.3	1312.4	1263.8	3534.7	5740.9	5870.5	5762.5	4606.8
70°	318.6	329.4	383.4	469.9	937.0	734.5	1879.4	4893.0	5046.9	5368.3	4288.1
72.5°	243.0	256.5	321.3	396.9	658.9	496.9	726.4	3475.3	3718.4	4150.4	3540.1
75°	175.5	180.9	237.6	324.0	461.8	383.4	313.2	1793.0	2038.8	2449.2	2200.8
77.5°	110.7	118.8	162.0	243.0	413.2	291.6	186.3	653.5	823.6	1066.6	961.3
80°	64.8	67.5	97.2	167.4	278.1	216.0	118.8	232.2	280.8	396.9	256.5
82.5°	37.8	40.5	62.1	113.4	180.9	167.4	75.6	118.8	132.3	151.2	54.0
85°	13.5	13.5	43.2	67.5	97.2	83.7	43.2	62.1	67.5	83.7	16.2
87.5°	2.7	2.7	21.6	35.1	35.1	13.5	21.6	27.0	32.4	45.9	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594382  
 CATALOG NUMBER: ISC-PA1F-735-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7	912.7
2.5°	920.8	912.7	904.6	893.8	885.7	869.5	861.4	850.6	847.9	842.5	839.8
5°	942.4	928.9	910.0	883.0	866.8	842.5	826.3	810.1	807.4	802.0	799.3
7.5°	972.1	958.6	934.3	904.6	877.6	853.3	834.4	810.1	785.8	766.9	766.9
10°	1020.7	1004.5	972.1	945.1	912.7	861.4	772.3	691.3	640.0	607.6	596.8
12.5°	1080.1	1058.5	1023.4	991.0	928.9	766.9	629.2	523.9	437.5	396.9	388.8
15°	1142.2	1123.3	1088.2	1039.6	853.3	640.0	459.1	297.0	213.3	175.5	180.9
17.5°	1209.7	1182.7	1142.2	1045.0	750.7	478.0	245.7	151.2	129.6	124.2	124.2
20°	1280.0	1244.9	1204.3	985.6	618.4	275.4	140.4	113.4	105.3	97.2	99.9
22.5°	1355.6	1312.4	1250.3	896.5	442.9	148.5	108.0	91.8	81.0	78.3	78.3
25°	1436.6	1374.5	1296.2	793.9	256.5	113.4	89.1	72.9	64.8	62.1	59.4
27.5°	1523.0	1444.7	1307.0	658.9	145.8	94.5	70.2	56.7	48.6	45.9	45.9
30°	1601.3	1514.9	1282.7	488.8	110.7	78.3	56.7	43.2	37.8	37.8	37.8
32.5°	1706.6	1593.2	1207.0	305.1	89.1	62.1	43.2	35.1	29.7	29.7	29.7
35°	1844.3	1709.3	1131.4	162.0	72.9	51.3	35.1	27.0	24.3	24.3	24.3
37.5°	2033.3	1863.2	1063.9	102.6	59.4	40.5	27.0	21.6	18.9	18.9	18.9
40°	2227.8	2046.9	969.4	78.3	48.6	32.4	21.6	16.2	13.5	13.5	16.2
42.5°	2470.8	2260.2	861.4	67.5	40.5	27.0	16.2	10.8	8.1	10.8	10.8
45°	2716.5	2484.3	710.2	56.7	35.1	21.6	10.8	5.4	5.4	8.1	8.1
47.5°	2970.4	2721.9	550.9	48.6	29.7	16.2	8.1	2.7	2.7	5.4	5.4
50°	3232.3	2956.9	410.5	43.2	24.3	13.5	5.4	2.7	0.0	2.7	2.7
52.5°	3494.2	3183.7	318.6	37.8	21.6	10.8	2.7	0.0	0.0	0.0	2.7
55°	3737.3	3388.9	253.8	32.4	18.9	8.1	2.7	0.0	0.0	0.0	0.0
57.5°	3942.5	3540.1	202.5	29.7	16.2	5.4	2.7	0.0	0.0	0.0	0.0
60°	4136.9	3658.9	156.6	24.3	13.5	5.4	2.7	0.0	0.0	0.0	0.0
62.5°	4274.6	3704.9	126.9	21.6	10.8	5.4	0.0	0.0	0.0	0.0	0.0
64°	4334.0	3710.3	110.7	18.9	10.8	5.4	2.7	0.0	0.0	0.0	0.0
65°	4369.1	3694.1	102.6	18.9	10.8	5.4	2.7	0.0	0.0	0.0	0.0
67.5°	4377.2	3604.9	78.3	16.2	8.1	2.7	2.7	0.0	0.0	0.0	0.0
70°	4139.6	3294.4	56.7	10.8	5.4	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	3459.1	2516.7	37.8	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
75°	2160.3	1088.2	21.6	8.1	2.7	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	893.8	329.4	13.5	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0
80°	205.2	78.3	5.4	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	48.6	13.5	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	10.8	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)